

8774
1958/59

1958-1959

POMONA
COLLEGE
BULLETIN

ANNUAL CATALOG NUMBER

THE LIBRARY OF THE

JUL 2 1958

UNIVERSITY OF ILLINOIS

POMONA COLLEGE BULLETIN

Published monthly except July and August by Pomona College.
Entered as second-class matter August 24, 1912, at the Postoffice
at Claremont, California, under the act of August 24, 1912.

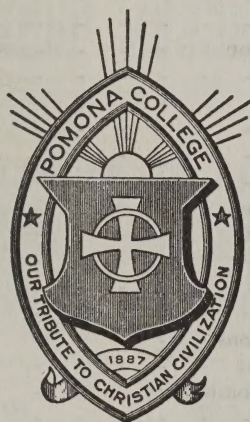
Vol. LV

APRIL, 1958

No. 8

Annual Catalog

1958-1959



Pomona College

CLAREMONT, CALIFORNIA

CONTENTS

	Page
College Calendar - - - - -	4
Board of Trustees - - - - -	6
General Administration - - - - -	7
Faculty - - - - -	8
Faculty Committees - - - - -	20
The College - - - - -	21
The Associated Colleges - - - - -	22
Claremont - - - - -	24
The Campus - - - - -	25
Admission - - - - -	31
Application Procedure - - - - -	33
College Entrance Examination Board - - - - -	34
Expenses - - - - -	36
Tuition and Fees - - - - -	36
Residences for Men - - - - -	37
Residences for Women - - - - -	37
Residence Regulations - - - - -	37
Payment of Bills - - - - -	38
Scholarships and Student Aid - - - - -	40
Scholarships - - - - -	41
Student Aid - - - - -	49
Student Loans - - - - -	52
Student Employment - - - - -	53
Fellowships - - - - -	53
Academic Distinctions - - - - -	55
Prizes - - - - -	55
General Information - - - - -	59
Library - - - - -	59
College Publications - - - - -	59
Lecture Foundations - - - - -	59
Public Assemblies - - - - -	60
Religious Activities - - - - -	60
Music - - - - -	60
Campus Organizations - - - - -	61
Student Publications - - - - -	62
Faculty-Student Committees - - - - -	62
Conduct - - - - -	62
Automobiles and Motorcycles - - - - -	63
Medical and Physical Care - - - - -	65
Associated Colleges Counseling Center - - - - -	67
Vocational Counseling and Placement - - - - -	67
Graduate Work - - - - -	68
Summer Session - - - - -	69
Professional Preparation - - - - -	70
The Curriculum - - - - -	79
Summary of Requirements - - - - -	80
Academic Regulations - - - - -	82
Requirements for Distribution - - - - -	86
Concentration in Upper Division - - - - -	87
Honors Study - - - - -	88
Courses of Instruction - - - - -	89
Map of Campus - - - - -	160
Index - - - - -	162

CALENDAR FOR 1958

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	1	2	3	4	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	---	23	24	25	26	27	28	---	23	24	25	26	27	28	29	27	28	29	30	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	31	---	---	---	---	---	---	---	---	---	---	---	---
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	1	2	3	---	---	---	---	---	---	1	---	---	---	---	---	1	2	---	---	---	---	---	---	---
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
25	26	27	28	29	30	31	29	30	---	---	---	---	---	27	28	29	30	31	---	---	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	31	---	---	---	---	---	---
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	1	2	3	4	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
28	29	30	---	---	---	---	26	27	28	29	30	31	---	23	24	25	26	27	28	29	28	29	30	31	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---

CALENDAR FOR 1959

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	1	2	3	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	---	---	---	---	---	---	---	29	30	31	---	---	---	---	26	27	28	29	30	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	---	1	2	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
24	25	26	27	28	29	30	28	29	30	---	---	---	---	26	27	28	29	30	31	---	23	24	25	26	27	28	29
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	31	---	---	---	---	---
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	1	2	3	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
27	28	29	30	---	---	---	25	26	27	28	29	30	31	29	30	---	---	---	---	---	27	28	29	30	31	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

COLLEGE CALENDAR FOR 1958 - 1959

Claremont Summer Session, 1958

First Term: June 23 to August 1

Second Term: August 4 to September 6 (Liberal Arts only)

FIRST SEMESTER

SEPTEMBER 19, FRIDAY	Residence halls open for new students only. First meal served, dinner at 6 p.m.
SEPTEMBER 19-22	Program for new students.
SEPTEMBER 20, SATURDAY	Faculty Meeting, 10 a.m.
SEPTEMBER 22, MONDAY	Conference Day and Registration for new students.
SEPTEMBER 23 AND 24 TUESDAY AND WEDNESDAY	Residence halls open for returning students. Only those returning students who have been officially requested to arrive in Claremont earlier may be admitted to campus residence before this date. First meal served to returning students, breakfast, Tuesday. Registration for returning students.
SEPTEMBER 25, THURSDAY	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
OCTOBER 9, THURSDAY	Last day for entering classes.
OCTOBER 16, THURSDAY	Founders Day, Flame Ceremony, 11 a.m.
NOVEMBER 18, TUESDAY	Low Grade Reports due.
NOVEMBER 24, MONDAY	Final day for withdrawal from classes without penalty.
NOVEMBER 26, WEDNESDAY	Thanksgiving recess begins, 9:30 p.m.
DECEMBER 1, MONDAY	Thanksgiving recess ends, 8 a.m.
DECEMBER 18, THURSDAY	Christmas vacation begins, 9:30 p.m.
JANUARY 5, MONDAY	Christmas vacation ends, 8 a.m. Reading period begins.
JANUARY 24, SATURDAY	Last day of classes.
JANUARY 26, MONDAY	Final Examinations begin.
FEBRUARY 4, WEDNESDAY	Final Examinations end.
FEBRUARY 7, SATURDAY	First Semester ends.

COLLEGE CALENDAR FOR 1958 - 1959

SECOND SEMESTER

FEBRUARY 9, MONDAY	Opening day for classes at Scripps College. Pomona students enrolled in Scripps courses are expected to attend.
FEBRUARY 10, TUESDAY	Registration for all students.
FEBRUARY 11, WEDNESDAY	Second semester classes begin, 8 a.m. Continue registration for all students.
FEBRUARY 12, THURSDAY	Opening Convocation, second semester, 11 a.m.
FEBRUARY 25, WEDNESDAY	Last day for entering classes.
MARCH 14, SATURDAY	Matriculation Day.
MARCH 29, SUNDAY	Easter.
APRIL 1, WEDNESDAY	Low Grade Reports due.
APRIL 4, SATURDAY	Spring vacation begins, noon.
APRIL 13, MONDAY	Spring vacation ends, 8 a.m.
APRIL 15, WEDNESDAY	Final day for withdrawal from classes without penalty.
MAY 11, MONDAY	Reading period begins.
MAY 23, SATURDAY	Last day of classes for graduating seniors.
MAY 30, SATURDAY	Last day of classes.
MAY 31, SUNDAY	Memorial Convocation, 5 p.m.
JUNE 1, MONDAY	Final Examinations begin.
JUNE 7, SUNDAY	Associated Colleges Baccalaureate.
JUNE 10, WEDNESDAY	Final Examinations end.
JUNE 13, SATURDAY	Alumni Day.
JUNE 14, SUNDAY	Commencement.
JUNE 18, THURSDAY	Scholarship Committee Meeting.
JUNE 19, FRIDAY	Joint Meeting of Classification and Student Affairs Committees.
	* * *
SEPTEMBER 18-21	Program for new students.
SEPTEMBER 21	Registration begins.

BOARD OF TRUSTEES

OFFICERS

Rudolph J. Wig, *President*
Arthur J. McFadden, *Vice-President*
Fred W. Smith, *Vice-President*

TERM OF OFFICE EXPIRES JUNE, 1958

Lloyd L. Austin, <i>Pasadena</i>	Mrs. Victor Montgomery, <i>Beverly Hills</i>
Samuel R. Raymond, <i>Los Angeles</i>	Morris B. Pendleton, <i>San Marino</i>
Cyril Chappellet, <i>Los Angeles</i>	S. Rodman Irvine, <i>Beverly Hills</i>

TERM OF OFFICE EXPIRES JUNE, 1959

Fred W. Smith, <i>Ojai</i>	Roy E. Thomas, <i>Los Angeles</i>
Robert B. Coons, <i>Los Angeles</i>	Paul Fussell, <i>Pasadena</i>
John W. Dodds, <i>Palo Alto</i>	Ranney C. Draper, <i>Monrovia</i>

TERM OF OFFICE EXPIRES JUNE, 1960

Terrell C. Drinkwater, <i>Los Angeles</i>	Herbert S. Rempel, <i>Pasadena</i>
A. J. Gock, <i>Los Angeles</i>	Frank R. Seaver, <i>Los Angeles</i>
Leonard A. Shelton, <i>Claremont</i>	

TERM OF OFFICE EXPIRES JUNE, 1961

James T. Wood, Jr., <i>Pasadena</i>	Yale B. Griffith, <i>Santa Barbara</i>
Arthur J. McFadden, <i>Santa Ana</i>	E. Wilson Lyon, <i>Claremont</i>
Charles E. Donnelly, <i>Los Angeles</i>	Alden S. Mosshammer, <i>Pasadena</i>

TERM OF OFFICE EXPIRES JUNE, 1962

Lawrence T. Cooper, <i>Altadena</i>	Charles Deto, <i>Pasadena</i>
William W. Clary, <i>Pasadena</i>	Rudolph J. Wig, <i>San Marino</i>

HONORARY MEMBERS

Paul S. Armstrong, <i>Los Angeles</i>	Ernest E. Jones, <i>Claremont</i>
Frederick S. Bale, <i>Pasadena</i>	George R. Martin, <i>Los Angeles</i>
George W. Bryant, <i>San Marino</i>	William S. Mason, <i>Rancho Santa Fe</i>
George L. Eastman, <i>Hollywood</i>	Seeley G. Mudd, <i>San Marino</i>
Mary Clark Eversole, <i>La Canada</i>	Mary McLean Olney, <i>Berkeley</i>
William B. Himrod, <i>Los Angeles</i>	George S. Sumner, <i>Claremont</i>
Carl I. Wheat, <i>Menlo Park</i>	

EX-OFFICIO MEMBERS

Managing Director, Claremont College
President of the Alumni Association
President of the Dads Club
President of the Women's Campus Club
President of the Pomona College Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, 1890 - 1897	Franklin L. Ferguson, 1897 - 1901
George A. Gates, 1901 - 1910	James A. Blaisdell, 1910 - 1928
Charles K. Edmunds, 1928 - 1941	

GENERAL ADMINISTRATION

1958-59

ELIJAH WILSON LYON, <i>President</i> B.A., University of Mississippi; B.A. and B. Litt., University of Oxford; Ph.D. University of Chicago; LL.D., Colgate University; D.Litt., Occidental College; L.H.D., Trinity College.	<i>Sumner Hall</i>
ALLEN F. HAWLEY, <i>Vice-President</i> B.A., Pomona College; Graduate Student, Harvard University.	<i>Sumner Hall</i>
PAUL H. BURTON, <i>Controller</i> B.A., Western Reserve University.	<i>Harper Hall</i>
WILLIAM V. SHANNON, <i>Treasurer</i> B.S., Virginia Military Institute.	<i>Harper Hall</i>
ORLANDO R. DAVIDSON, <i>Director of Development</i> B.A., Reed College.	<i>Sumner Hall</i>
WILLIAM B. HIMROD, <i>Assistant to the President</i> B.A., Pomona College. Graduate Student, University of Southern California.	<i>Sumner Hall</i>
JOHN F. MOULDS, <i>Assistant to the President</i> Ph.B., University of Chicago.	<i>Sumner Hall</i>
WARREN B. KNOX, <i>Assistant to the President and Secretary of Pomona College Associates</i> B.A., M.A., Whittier College.	<i>Sumner Hall</i>
GLENN V. FULLER, <i>Bursar</i> B.A., Ohio State University.	<i>Harper Hall</i>
MARJORIE B. WOODFORD, <i>Assistant Treasurer</i> B.A., Pomona College; M.A., Columbia University.	<i>Harper Hall</i>
CHARLES M. CRAWFORD, JR., <i>Assistant Treasurer</i>	<i>Harper Hall</i>
FRANK H. TAYLOR, <i>Assistant Controller</i> B.S., University of Southern California	<i>Harper Hall</i>
MORTON C. JOHNSON, <i>Alumni Secretary</i> B.A., Pomona College.	<i>Sumner Hall</i>
KENNETH E. OVERAKER, <i>Director of the News Bureau</i>	<i>Sumner Hall</i>
AGNES M. JOHNSON, <i>Executive Secretary to the President</i>	<i>Sumner Hall</i>
DOROTHY G. METZGER, <i>Director of Residence Halls</i> B.S., Iowa State College.	<i>Mudd Hall</i>
LUCILLE GRAMSE MCCARTHY, <i>Director of Dining Halls</i> B.S., M.S., Kansas State College of Applied Sciences.	<i>Frery Hall</i>
GEORGE W. CONN, <i>Campus Engineer</i> B.S., Bradley University.	<i>303 E. First St.</i>

The Faculty

Date denotes beginning of original term of service

ADMINISTRATIVE OFFICERS

- ELIJAH WILSON LYON 345 North College Ave.
President, 1941.
 B.A., University of Mississippi; B.A., and B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt.D., Occidental College; L.H.D., Trinity College.
- FRANCIS RAYMOND IREDELL 1060 College Ave.
Dean of the Faculty, and Professor of Philosophy on the Robert C. Denison Foundation, 1925.
 B.A., Pomona College; M.A., Ph.D., Harvard University.
- J. EDWARD SANDERS 310 Radcliffe Drive
Dean of Students and Dean of Admissions, 1942.
 B.A., Hendrix College; M.A., Ph.D., Columbia University.
- SHELTON L. BEATTY 741 Dartmouth Ave.
Dean of Men, 1949.
 B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University
- JEAN B. WALTON 1370 Indian Hill Blvd.
Dean of Women on the Martha N. Hathaway Foundation, 1949.
 B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania.
- WILLIAM L. WHEATON 328 Oakdale Dr.
Associate Dean of Admissions, 1949.
 B.A., Pomona College; M.A., New York University.
- HERBERT B. SMITH³ 414 Elder Dr.
Assistant Dean of Admissions; Assistant Professor of History, 1952.
 B.A., M.A., University of Iowa; Ph.D., University of California.
- MASAGO ARMSTRONG 4003 N. Garey Ave., La Verne
Registrar, 1955.
 B.A., M.A., Stanford University.
- DAVID W. DAVIES 524 W. Tenth St.
Librarian, 1947.
 B.A., University of California at Los Angeles; M.A., University of California; Ph.D., University of Chicago.
- JULIAN G. MICHEL 220 W. Twelfth St.
Associate Librarian, 1957.
 B.A., Loyola University, New Orleans; M.A., Ph.D., Tulane University; Docteur de l'Université, University of Paris; B.L.S., University of California, Berkeley.
- INA T. NIDER, *Social Director, Women's Campus* Harwood Court
 B.A., Fresno State College; M.A., Columbia University.
- GILBERT S. COLTRIN 333 Radcliffe Dr.
Physician of the Associated Colleges, 1940.
 B.A., Pomona College; M.D., University of Rochester. Intern, Resident in Medicine, University of California Hospital; Fellow in Urology, Presbyterian Hospital, New York City; Exchange Fellow in Physiology, University of Kiel, Germany.

EMERITI

- WALTER ALFRED ALLEN 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.
- RAY ERWIN BABER
Emeritus Professor of Sociology, 1939.
B.A., Campbell College; M.A., Ph.D., University of Wisconsin.
- GRACE ELLA BERRY 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.
- JAMES WHITE CROWELL 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.
- ROBERT SIDNEY ELLIS 629 Marylind Ave.
Emeritus Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.
- BERNARD CAPEN EWER 120 E. Eleventh St.
Emeritus Professor of Psychology, 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.
- CHARLES TABOR FITTS 445 Harrison Ave.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California. Graduate study, Harvard University.
- COLVIN HEATH 750 Indian Hill Blvd.
Emeritus Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.
- WILLIAM ATWOOD HILTON 1293 Dartmouth Ave.
Emeritus Professor of Zoology, 1905.
B.S., Ph.D., Cornell University.
- ERNEST E. JONES 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.
- CYRIL JURECKA 163 W. Eleventh St.
Emeritus Assistant Professor of Art, 1932.
Graduate, Imperial and Royal College of Sculpture, Horice, Bohemia.
- WILLIAM KIRK 705 Indian Hill Blvd.
Emeritus Professor of Sociology, 1922.
B.A., Ph.D., Johns Hopkins University.
- ELLIOTT CURTIS LINCOLN 472 W. Tenth St.
Emeritus Professor of English, 1924.
B.A., Colby College; M.A., State College of Washington and Harvard University.
- BRUCE McCULLEY 335 Harvard Ave.
Emeritus Professor of English Literature, 1921.
B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

The Faculty

- EUGENE WHITE NIXON** 1351 Tulane Rd.
Emeritus Professor of Physical Education for Men, 1916.
 B.A., Monmouth College; M.A., Columbia University. Graduate study, Illinois and California Universities.
- GEORGE STEDMAN SUMNER** 245 N. College Ave.
Emeritus Professor of Economics and Sociology, 1897.
Controller, 1922-1941.
 B.A., Pomona College; B.A., Ph.D., Yale University.
- EMILIE ELIZABETH WAGNER** 783 W. Tenth St.
Emeritus Associate Professor of German, 1928.
 B.A., Smith College; M.A., Pennsylvania State College. Doctorate de l'Université mention Lettres, Toulouse.
- WALTER TICKNOR WHITNEY** 710 W. Ninth St.
Emeritus Professor of Astronomy, 1929.
 B.S., M.S., Pomona College; Ph.D., University of Chicago.
- ALFRED OSWALD WOODFORD** 760 W. Ninth St.
Emeritus Professor of Geology, 1915.
 B.A., Pomona College; Ph.D., University of California.

PROFESSORS

- CARL BAUMANN** 567 W. Eighth St.
Professor of German, 1931.
 Ph.D., University of Basel.
- GRAHAM B. BELL** 1482 Wells St.
Professor of Psychology, 1956.
 B.A., Wesleyan University; M.A., Ph.D., Northwestern University.
- LYMAN BENSON** 1430 Via Zurita
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
 B.A., M.A., Ph.D., Stanford University.
- FLOYD A. BOND** 706 Santa Clara Ave.
Professor of Economics on the Stedman-Sumner Foundation, 1948.
 B.A., M.A., Ph.D., University of Michigan.
- FREDERICK BRACHER** 230 W. Seventh St.
Professor of English, 1944.
 B.S., Oregon State College; M.A., Ph.D., University of California.
- HAROLD R. BRUCE**
John Hay Whitney Visiting Professor of Government, 1958.
 B.A., Beloit College; M.A., Ph.D., University of Wisconsin. Emeritus Professor of Government, Dartmouth College.
- CH'EN SHOU-YI** 769 W. Ninth St.
Professor of Chinese Culture, 1941.
 B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia Sinica.
- HAROLD DAVIS** 612 W. Tenth St.
Professor of English on the Phebe Estelle Spalding Foundation, 1927.
 B.A., Stanford University; B.A., and B.Litt., University of Oxford.

The Faculty

II

- KENNETH G. FISKE** 585 W. Twelfth St.
Professor of Music, 1936.
 B. Mus., M.Mus., American Conservatory of Music. Pupil of Leon Sametini, Jacques Gordon, Otokar Sevcik.
- CHARLES A. FOWLER, JR.** 256 E. Second St.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
 B.A., M.S., University of Utah; Ph.D., University of California.
- EDWARD MONTGOMERY FRYER** 231 W. Tenth St.
Professor of Physics, 1946.
 B.A., Pomona College; Engineer (Mech.), Ph.D., Stanford University.
- JOHN HOWES GLEASON** 512 Baughman Ave.
Professor of History on the Warren Finney Day Memorial Foundation, 1939.
 B.A., Ph.D., Harvard University; B.Litt., University of Oxford.
- HUGH J. HAMILTON** 468 Grinnell Dr.
Professor of Mathematics, 1936.
 B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.
- CORWIN HERMAN HANSCH** 4070 Olive Knoll Place
Professor of Chemistry, 1946.
 B.S., University of Illinois; Ph.D., New York University.
- ROGER HAZELTON** 1207 Berkeley Ave.
Professor of Religion on the John Knox McLean Foundation, 1957.
 B.A., D.D., Amherst College; B.D., Chicago Theological Seminary; M.A., University of Chicago; Ph.D., Yale University.
- CHARLES SHIVELEY HOLMES** 1010 Berkeley Ave.
Professor of English, 1941.
 B.A., Oberlin College; Ph.D., Princeton University.
- FRANCIS RAYMOND IREDELL** 1060 College Ave.
Professor of Philosophy on the Robert C. Denison Foundation, and Dean of the Faculty, 1925.
 B.A., Pomona College; M.A., Ph.D., Harvard University.
- CHESTER GEORGE JAEGER** 1045 Yale Ave.
Professor of Mathematics on the Joseph N. Fiske Foundation, 1931.
 B.A., B.S., M.A., Ph.D., University of Missouri.
- WILLIAM THOMAS JONES³** 4201 Via Padova
Professor of Philosophy, 1938.
 B.A., Swarthmore College; B.Litt., University of Oxford; Ph.D., Princeton University.
- JOHN HASKELL KEMBLE** 452 West Sixth St.
Professor of History, 1936.
 B.A., Stanford University; M.A., Ph.D., University of California.
- MILES D. MCCARTHY** 444 Harrison Ave.
Professor of Zoology, 1946.
 B.S., West Chester State Teachers College; Ph.D., University of Pennsylvania.
- DONALD B. MCINTYRE** 243 N. Alexander Ave.
Professor of Geology, 1954.
 B.Sc., Ph.D., D.Sc., University of Edinburgh.

The Faculty

- HENRY CORD MEYER 470 Harrison Ave.
Professor of History, 1946.
 B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.
- FREDERICK LUDWIG MULHAUSER, JR. 424 W. Eleventh St.
Professor of English, 1941.
 B.A., College of Wooster; M.A., Ph.D., Yale University.
- WILLIS E. PEQUEGNAT³ 433 Harrison Ave.
Professor of Zoology on the Willard George Halstead Foundation, 1940.
 B.A., University of California; Ph.D., University of California at Los Angeles.
- LOUIS B. PERRY 2929 Claremont Hts. Dr.
Professor of Economics, 1947.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- EDWIN ALLEN PHILLIPS 146 E. Twelfth St.
Professor of Botany, 1948.
 B.A., Colgate University; M.A., Ph.D., University of Michigan.
- WILLIAM F. RUSSELL 202 N. College Ave.
Professor of Music, 1951.
 B.A., Columbia University; M.A., Harvard University.
- DWIGHT LEONARD RYERSON 107 E. San Jose
Professor of Zoology, 1946.
 B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.
- ALVIN HEWITT SCAFF 330 Radcliffe Dr.
Professor of Sociology, 1947.
 B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.
- R. NELSON SMITH³ 115 Brown Dr.
Professor of Chemistry, 1945.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Professor of English, 1932.
 B.A., M.A., Ph.D., Johns Hopkins University.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Professor of Physical Education for Men, 1923.
 B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Stanford University.
- JOHN ALBERT VIEG³ 910 Oxford Ave.
Professor of Government, 1945.
 B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.
- EDWARD WEISMILLER 510 W. Tenth St.
Professor of English, 1949.
 B.A., D.Litt., Cornell College; M.A., Harvard University; D. Phil., University of Oxford.
- SEYMOUR W. WURFEL 693 Northwestern Dr.
Professor of Military Science and Tactics, 1957.
 B.A., Pomona College; LL.B., Harvard University; J.D., Emory University; Command and General Staff College. Colonel, Judge Advocate Corps, U.S. Army.

ASSOCIATE PROFESSORS

- VIRGINIA PRINCEHOUSE ALLEN 175 E. Twelfth St.
Associate Professor of Dramatics, 1930.
 B.A., Pomona College; Graduate study, Department of Drama, Yale University; M.A., Claremont Graduate School.
- YOST U. AMREIN 456 Harrison Ave.
Associate Professor of Zoology, 1951.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- WILLIAM G. BLANCHARD 1495 Via Zurita
Associate Professor of Music and College Organist, 1936.
 B.Mus., DePauw University; M.Mus., University of Michigan. Further study with Carl Weinrich and Hugh Porter in organ and with Seth Bingham in composition.
- HARRY JOSEPH CARROLL, JR. 1476 Indian Hill Blvd.
Associate Professor of Classics on the Edwin Clarence Norton Foundation, 1948.
 B.A., University of Akron; M.A., Ph.D., Harvard University.
- ELIZABETH CAWTHORNE 758 Baylor St.
Associate Professor of Physical Education for Women, 1935.
 B.A., M.A., University of California.
- LORNE D. COOK 830 Harvard Ave.
Associate Professor of Economics, 1954.
 B.A., M.A., Ph.D., University of Michigan.
- MARGARET GAY DAVIES 395 S. Bonnie Ave., Pasadena
Associate Professor of History, 1952.
 B.A., M.A., Ph.D., Radcliffe College.
- DARYL DAYTON 262 W. Sixth St.
Associate Professor of Music, 1938.
 B.Mus., Oberlin College; Graduate study in Berlin and New York with Artur Schnabel, Leonard Shure, Dalies Frantz, and Guy Maier.
- BURTON HENKE 121 Brown Drive
Associate Professor of Physics, 1948.
 B.A., Miami University; M.A., Ph.D., California Institute of Technology.
- GRETCHEN GRAF JORDAN 638 E. Sixth St.
Associate Professor of English, 1947.
 B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.
- ROBERT F. LEGGEWIE 240 Annapolis Dr.
Associate Professor of Romance Languages, 1951.
 B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvard University.
- HOWARD H. MARTIN 642 N. College Ave.
Associate Professor of Speech, 1956.
 B.S., M.A., Ph.D., Northwestern University.
- LEE CAMERON McDONALD² 1129 Dartmouth Ave.
Associate Professor of Government, 1952.
 B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.

- EARL JAY MERRITT** 641 Harvard Ave.
Associate Professor of Physical Education for Men, 1925.
 B.A., Pomona College; M.A., Claremont Graduate School.
- GERHARD OERTEL** 3934 Sumner Ave.
Associate Professor of Geology, 1956.
 Studied at University of Graz, Austria; Ph.D., and Privatdozent, University of Bonn, Germany.
- WILLIAM C. OLSON** 338 Harvard Ave.
Associate Professor of Government, 1953.
 B.A., University of Denver; M.A., Ph.D., Yale University.
- GERHARD N. ROSTVOLD³** 448 Springfield St.
Associate Professor of Economics, 1952.
 B.A., M.A., Ph.D., Stanford University.
- PAUL McRAE ROUTLY** 408 W. Third St.
Associate Professor of Astronomy on the Frank P. Brackett Foundation, and Director of the Observatory, 1954.
 B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.
- PETER HOWARD SELZ** 320 Harvard Ave.
Associate Professor of Art, 1955.
 M.A., Ph.D., University of Chicago.
- JOHN SEWALL SHELTON³** 1100 Oxford Ave.
Associate Professor of Geology, 1946.
 B.A., Pomona College; Ph.D., Yale University.
- FREDERICK SONTAG** 713 Cedarview Dr.
Associate Professor of Philosophy, 1952.
 B.A., Stanford University; M.A., Ph.D., Yale University.
- RICHARD K. STUART**
Associate Professor of Economics, University of Maine.
Visiting Associate Professor of Economics, 1958.
 B.S., M.S., University of Rhode Island; Ph.D., University of Pennsylvania.
- ELMER B. TOLSTED** 337 W. Fifth St.
Associate Professor of Mathematics, 1947.
 B.S., M.S., University of Chicago; Ph.D., Brown University.
- ASSISTANT PROFESSORS**
- C. FREEMAN ALLEN** 651 Colorado Ave.
Assistant Professor of Chemistry, 1954.
 B.S., University of California; Ph.D., University of Wisconsin.
- HERBERT L. BAIRD** 136 E. Seventh St.
Assistant Professor of Romance Languages, 1957.
 B.A., Pomona College; M.A., Ph.D., University of Chicago.
- HARRY V. BALL** 132 E. Seventh St.
Assistant Professor of Sociology, 1956.
 B.A., M.A., Washington University; Ph.D., University of Minnesota.
- MORTON O. BECKNER** 630 Harvard Ave.
Assistant Professor of Philosophy, 1957.
 B.A., University of California at Santa Barbara; M.A., Ph.D., Columbia University.

- MARGERY SMITH BRIGGS 4549 Live Oak Dr.
Assistant Professor of Music, 1943.
 B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.
- HUGH E. CAHILL 127 E. Eighth St.
Assistant Professor of Psychology, 1956.
 B.A., Brown University; Ph.D., Yale University.
- EDWARD V. CERNY 2832 Rhodelia Ave.
Assistant Professor of Military Science and Tactics, 1957.
 M.B.A., University of Chicago; Major, Infantry, U.S. Army.
- KENNETH L. COOKE 654 Northwestern Dr.
Assistant Professor of Mathematics, 1957.
 B.A., Pomona College; M.A., Ph.D., Stanford University.
- ANN LINDSTAEDT COPPLE 205 W. Cucamonga Ave.
Assistant Professor of French, 1953.
 B.A., Wellesley College; M.A., University of Wisconsin; Ph.D., Northwestern University.
- CHARLES A. DOUGHERTY 5399 Rudisill St., Ontario
Assistant Professor of Military Science and Tactics, 1957.
 B.S., Georgetown University; Captain, Infantry, U.S. Army.
- WILLIAM L. FAUST 1100 Harvard Ave.
Assistant Professor of Psychology, 1953.
 B.A., M.A., Ph.D., Stanford University.
- HOUSTON I. FLOURNOY 272 W. Eleventh St.
Assistant Professor of Government, 1957.
 B.A., Cornell University; M.A., Ph.D., Princeton University.
- RAY FRAZER² 1102 North College Ave.
Assistant Professor of English, 1952.
 B.A., Pomona College; M.A., Ph.D., University of California.
- MARTIN E. FULLER Clark Hall
Assistant Professor of Chemistry, 1956.
 B.S., University of California at Los Angeles; Ph.D., Massachusetts Institute of Technology.
- THERESA ZEZZOS FULTON 146 E. Foothill Blvd.
Assistant Professor of Art, 1954.
 B.A., Wellesley College; Ph.D., Radcliffe College.
- JAMES E. GRANT³ 676 W. Ninth St.
Assistant Professor of Art, 1950.
 B.E., M.F.A., University of Southern California; Student at Jepson Art Institute.
- KARL GEORGE KOHN 698 Colorado St.
Assistant Professor of Music, 1950.
 B.A., M.A., Harvard University.
- VINCENT H. LEARNIHAN 220 W. Tenth St.
Assistant Professor of History, 1949.
 B.A., M.A., Ph.D., University of California at Los Angeles.
- RICHARD N. LOUCKS 176 W. Oak Park Dr.
Assistant Professor of Music, 1948.
 B.A., Pomona College; M.A. and doctoral candidate, Eastman School of Music.

- EDWARD W. MALAN 118 Oak Park Dr.
Assistant Professor of Physical Education for Men, 1950.
 B.A., Pomona College; M.A., Claremont Graduate School; doctoral candidate, University of California at Los Angeles.
- GUSTAVE MATHIEU 260 E. Third St.
Assistant Professor of German, 1957.
 B.S., M.A., Ph.D., Columbia University.
- JACK C. MILLER 134½ W. Second St.
Assistant Professor of Physics, 1952.
 B.A., Pomona College; M.A., University of California; D.Phil., University of Oxford.
- BURDETTE C. POLAND
Assistant Professor of History, 1958.
 B.A. Swarthmore College; M.A., Ph.D., Princeton University.
- HERBERT B. SMITH³ 414 Elder Dr.
Assistant Professor of History, 1952.
 B.A., M.A., University of Iowa; Ph.D., University of California.
- SALLY ANNE TAYLOR 1036 N. College Ave.
Assistant Professor of Physical Education for Women, 1950.
 B.A., Pomona College; M.A., Stanford University; Graduate work, University of Southern California.
- HOWARD THOMAS YOUNG 1269-A Harvard Ave.
Assistant Professor of Romance Languages, 1954.
 B.S., M.A., and Ph.D., Columbia University.

INSTRUCTORS

- ALEXANDER K. BAIRD
Instructor in Geology, 1958.
 B.A., Pomona College; M.A., Claremont Graduate School; doctoral candidate, University of California.
- ALVIN L. BEILBY
Instructor in Chemistry, 1958.
 B.A., San Jose State College; doctoral candidate, University of Washington.
- ELIZABETH BRUCHHOLZ 709 Colorado St.
Instructor in History, 1957.
 B.A., Pomona College; M.A., University of California.
- ROBERT L. FERM
Instructor in Religion, 1958.
 B.A., College of Wooster; B.D., Yale Divinity School; M.A. and doctoral candidate, Yale University.
- ROBERT J. FOGELIN
Instructor in Philosophy, 1958.
 B.A., University of Rochester; M.A. and doctoral candidate, Yale University.
- GEORGE T. FORRESTER 330 W. Sixth St.
Instructor in Speech and Drama, 1956.
 B.S., College of the City of New York; M.A., University of Southern California.

WILLIAM MANSFIELD HILL 1035 N. Columbia Ave.
Instructor in Art History, jointly appointed with Scripps College, 1957.
 B.A., San Jose State College; M.A. and doctoral candidate, University of California.

JEANNETTE HYPES 2072 Peyton Rd., La Verne
Instructor in Physical Education for Women, 1957.
 B.A., Bowling Green State University.

JOHN FRANCIS KEOGH 344 W. Eleventh St.
Instructor in Physical Education for Men, 1957.
 B.A., Pomona College; M.A., Claremont Graduate School; doctoral candidate, University of California at Los Angeles.

CHARLES M. LESLIE 122 E. Seventh St.
Instructor in Sociology and Anthropology, 1956.
 B.A., M.A., doctoral candidate, University of Chicago.

JEAN M. MAEYS 456 Camellia, Ontario
Instructor in Physical Education for Women, 1957.
 B.A., Washington University; M.A., New York University; Graduate Study, University of California at Los Angeles.

MORTON J. MILLS Smiley Hall
Instructor in Physical Education for Men, 1957.
 B.S., Illinois State Normal University; graduate student, Los Angeles State College.

TOM D. MORGAN
Instructor in Physical Education for Men, 1958.
 B.A. and M.A. candidate, Los Angeles State College.

LEONARD C. PRONKO 134 E. Seventh St.
Instructor in Romance Languages, 1957.
 B.A., Drury College; M.A., Washington University; Ph.D., Tulane University.

JOHN E. QUINLAN
Instructor in Chemistry, 1958.
 B.S., Marquette University; M.S., University of Arkansas; doctoral candidate, University of Wisconsin.

THEODORE R. ROSCHÉ 159 W. Sixth St.
Instructor in Religion on the Nancy M. Lyon Foundation, 1957.
 B.A., Park College; B.D. and doctoral candidate, Union Theological Seminary.

RICHARDS RUBEN
Instructor in Art, 1958.
 Graduate of Chouinard Art Institute.

HELEN M. SMITH 120 W. Third St.
Instructor in Violin, 1949.
 B.A., Pomona College; graduate study, University of Indiana.

ROBERT G. SPIEGELMAN 147 E. Twelfth St.
Instructor in Economics, 1957.
 B.S., University of California; doctoral candidate, Columbia University.

PART-TIME FACULTY

KALMAN BLOCH 3914 Franklin Ave., Los Angeles
Clarinet
 First Clarinetist, Los Angeles Philharmonic Orchestra.

- THELMA NEFT GELLER 3726 Lynoak Dr., La Verne
Oboe
 Graduate, Curtis Institute of Music. Formerly oboist with the Pittsburgh Symphony Orchestra.
- LEWIS L. GRIMM 220 W. Bonnie Brae Court, Ontario
Engineering Drawing
 B.S., California Institute of Technology; M.A., Claremont Graduate School.
- FREDERICK H. HAMMERSLEY 905 $\frac{3}{4}$ Sanborn Ave., Los Angeles
Painting
 Student, Chouinard Art Institute; Ecole des Beaux Arts, Paris; Jepson Art Institute.
- FELIZA HERTZ 11811 Bellagio Rd., Los Angeles
German
 Graduate study, University of Hamburg.
- HOWARD R. HOUSTON 272 W. Fourth St.
English
 B.A., Cornell University; M.A., Pennsylvania State College; doctoral candidate, Claremont Graduate School.
- MARGOT JEAN 272 S. Almont, Beverly Hills
Violoncello
 Pupil of Jacob at the Royal Conservatoire in Brussels.
- WALTER E. NILUS 224 Hawthorne Dr., Ontario
Russian
 Mag. phil., Tartu University, Estonia.
- RALPH W. PIERCE 531 E. Granada Ct., Ontario
Piano
 Student of Ethel Leginska.
- JEAN PILON 3005 Rockmont
Voice
 B.A., M.A., Chicago Musical College.
- RALPH S. PYLE 1450 Casa Grande, Pasadena
French Horn
 B.A., M.A., New York University; French Horn, Los Angeles Philharmonic Orchestra.
- EDGAR F. RACEY, JR. 1236 Amherst Ave.
English
 B.A., Ohio State University; M.A., Stanford University; doctoral candidate, Claremont Graduate School.
- DOROTHY REMSEN 137 N. Serrano, Los Angeles
Harp
 Harpist, Los Angeles Philharmonic Orchestra.
- KENNETH E. RICHARDSON 1558 Elysian Ave., Pomona
English
 B.A., Westmont College; M.A., and doctoral candidate, Claremont Graduate School.
- DAVID R. SMITH 270 W. Tenth St.
English
 B.A., Pomona College; M.A. and doctoral candidate, Claremont Graduate School.

ROGER STEVENS 1677 E. Mountain St., Pasadena
Flute
Flutist, Los Angeles Philharmonic Orchestra.

GEORGE H. TYLER 140 E. Twelfth St.
Brass Instruments
Formerly first trumpet with Los Angeles Philharmonic Orchestra.

JACK ZAJAC
Sculpture
Studied at Claremont Graduate School; American Academy in Rome; and in Segovia, Spain.

MEMBERS OF THE CLAREMONT GRADUATE SCHOOL FACULTY
OFFERING COURSES IN POMONA COLLEGE

DOUGLASS G. ADAIR
Professor of American History
B.A., University of the South; M.A., Harvard University; Ph.D., Yale University.

JAMES D. CALDERWOOD
Professor of International Economics
B. Com., London School of Economics; Ph.D., Ohio State University.

SHERWIN CARLQUIST
Assistant Professor of Botany
B.A., Ph.D., University of California.

CLYDE E. CURRAN
Associate Professor of Education
B.A., San Francisco State College; M.A., Ed.D., Stanford University.

J. LEROY DAVIDSON
Professor of the History of Art
B.A., Harvard University; M.A., New York University; Ph.D., Yale University.

MALCOLM P. DOUGLASS
Assistant Professor of Education
B.A., Pomona College; M.A., Columbia University; Ed.D., Stanford University.

ROBERT W. EARL
Assistant Professor of Psychology
B.A., M.A., Stanford University; Ph.D., University of Michigan.

EDWIN S. FUSSELL
Associate Professor of English and American Literature.
B.A., Pomona College; M.A., Ph.D., Harvard University.

MERRILL R. GOODALL
Associate Professor of Asian Studies and Government
B.A., M.A., University of California; Ph.D., Johns Hopkins University.

ARTHUR R. KING, JR.
Assistant Professor of Education
B.A., University of Washington; M.A., Ed.D., Stanford University.

CECIL Y. LANG
Associate Professor of English Literature
B.A., M.A., Duke University; M.A., Ph.D., Harvard University.

FRED WARNER NEAL

Associate Professor of International Relations
B.A., M.A., Ph.D., University of Michigan.

FRANCIS THEODORE PERKINS

Professor of Psychology
B.A., M.A., Ph.D., University of Kansas.

¹Absent on leave, first semester, 1958-59.

²Absent on leave, second semester, 1958-59.

³Absent on leave 1958-59.

FACULTY COMMITTEES 1958-59

First person named is the Committee Chairman

Administration—President, Dean of the Faculty, McCarthy, Strathmann, Hazelton, Carroll, Hansch, Meyer.

Admission—Sanders, Armstrong, Bracher, Fryer, Scaff, Wheaton.

Athletics:

Faculty Committee—Perry, Cooke, Holmes, Phillips, Strehle.

Advisory Council to Director—Strehle, Jaeger, Phillips, three student representatives, and two alumni representatives.

Representatives on the Southern California Intercollegiate Athletic Conference—Jaeger, Strehle.

Classification—Iredell, Armstrong, Bracher, Fiske, McDonald, Ryerson.

College Life Council—Beatty, Faust, Sanders, Walton, Young, the four Class Advisers, and nine student members. An elected chairman.

Courses of Study—Iredell, Bell, Bond, Fowler, Gleason, Hansch, Hazelton, Holmes, Leggewie, McIntyre, Phillips, Sanders, Selz.

Honors—Holmes, Cook, Kemble, Kohn, Routly.

International Relations—Olson, Calderwood, Ch'en, Mathieu, Meyer, Scaff, Young.

Library—Mulhauser, Benson, Bond, Mr. Davies, Dayton, Hansch, Weismiller.

Personnel—Beatty, Freeman Allen, Armstrong, Ball, Bell, Nider, Sanders, Taylor, Walton, and four student representatives selected by the Executive Council of the Associated Students.

Pre-Law—Bond, Flournoy, Frazer, Gleason.

Pre-Medical—McCarthy, Coltrin, Hansch, Ryerson, Tolsted, Young.

Public Events—Iredell, Amrein, Bond, Flournoy, Martin, Mathieu, Selz, and three student representatives.

Religious Activities—Hazelton, Beatty, Blanchard, Fuller, McDonald, Miller, Perry, Sontag.

Scholarships and Student Aid—Sanders, Freeman Allen, Beatty, Cook, Loucks, Malan, Sontag, Walton.

Student Affairs—Sanders, Beatty, Jaeger, Mulhauser, Olson, Perry, Walton, and four members of the Executive Council of the Associated Students.

Vocational Counselling and Placement—Beatty, Cawthorne, Mrs. Davies, Faust, Keogh, Leggewie, Loucks, Routly, Strehle.

The College

POMONA COLLEGE is an independent, privately endowed, coeducational institution of arts and sciences. Originally established in 1887 to serve its immediate region, the college now enjoys support from every section of the United States and from many foreign countries. Enrollment is restricted to approximately one thousand students.

The purpose of the college is to awaken the minds and develop the personalities of its students so that they may attain full growth both as individuals and as responsible members of a democratic society.

Pomona College was incorporated on October 14, 1887, by a group of early settlers who wanted to see in Southern California a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells.

Instruction was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel (now Sumner Hall) in nearby Claremont, together with considerable land adjacent, was given to the College and the work was transferred to that place. Although this location was originally regarded as temporary, Claremont later became the permanent home of the College. By that time, however, the name of "Pomona College" had become so definitely fixed to the institution that it was retained, notwithstanding the location.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. The preparatory department, essential in the beginning, was discontinued in 1910.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin.

Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

Pomona is a liberal arts college, which affords a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires thus to train men and women for leadership in the professions, in business, and in civic affairs.

Pomona believes that a college should be a genuine community in which faculty and students meet easily and frequently and students live, eat, and work together on the campus. To this end, the College maintains a large faculty in relation to its student body (during 1958-59 there will be approximately one faculty member for every nine students) and provides one of the finest groups of dormitories and dining halls in the country. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial stability of the college. From the contributions of her benefactors, the total assets of Pomona are now over \$23,000,000, of which \$12,500,000 is in endowment.

THE ASSOCIATED COLLEGES

Pomona College is the original institution in a group of five Associated Colleges, of which the other members are Claremont College, Scripps College, Claremont Men's College, and Harvey Mudd College. Each college serves its own distinctive purposes, determines its own policies and requirements, possesses legal autonomy, and has its independent board of trustees and faculty. However, the five institutions cooperate in their academic programs and in the use of certain common facilities. The undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open

to seniors in the undergraduate colleges. The combined resources of the libraries, the public events, the college church, the well-equipped medical dispensary and infirmary, the central business office, are available to all colleges.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who at the end of World War I were seeking admission to the College.

Under the leadership of the Pomona trustees, the institution now incorporated as Claremont College was established on October 14, 1925, for the inauguration of the new plan. It assumed the responsibilities of a central coordinating agency, the direction of graduate instruction for the Associated Colleges, and the foundation of new institutions, as they might be required. Claremont College conducts its instructional program under the name of "The Claremont Graduate School," and the presidents of the undergraduate colleges, in addition to their duties in their respective colleges, serve in rotation for one-year terms as head of Claremont College, with the title of Provost. In addition to its own appointees, the faculty of the Claremont Graduate School includes most members of the four undergraduate faculties.

An early objective of the group plan was the establishment of a college for women. In September, 1927, Scripps College, named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 250 women. From the beginning, the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college training particularly for business and public administration. The College has developed residence and academic facilities for 350 students.

Harvey Mudd College, named in honor of the beloved late President of the Board of Fellows of Claremont College, was incorporated as the fourth undergraduate college in 1956. The college, which offers a program in basic science and engineering, began instruction in September, 1957.

CLAREMONT

One of Pomona's greatest assets is the town of Claremont, a pleasant residential community of 10,000 which has grown up around the college. Although Pomona College students enjoy in Claremont the relative quiet of a small academic community, they are only thirty-five miles from the heart of Los Angeles, with which it has hourly bus connections.

Claremont is on the main line of the Santa Fe Railway, and the transcontinental lines of the Union Pacific and the Southern Pacific pass through Pomona, a city of over 60,000, only four miles away. The college is easily accessible by air. There is frequent helicopter service from the City of Pomona to Los Angeles. Two airlines operate convenient east and west flights from Ontario International Airport, only seven miles from the college campus.

The Campus

POMONA COLLEGE has a campus of great beauty, and one of the most modern and best equipped physical plants of any college in the United States. The College occupies approximately one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, approximately ten in Alumni Athletic Field, and fifty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years president of the board.

Other beautiful and specially landscaped areas are Memorial Court, honoring certain former members of the College, and Harwood Garden on the men's campus which honors the late Frank H. Harwood, '98, a trustee and former President of the Board. The Stover Memorial, from College Avenue to College Way, honors the memory of the late Clarence T. Stover, '21, a trustee and chairman of the Buildings and Grounds Committee.

Pomona College has thirty-one buildings of its own, and also shares six other buildings which Claremont College owns and operates for all the Associated Colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona College.

Holmes Hall, the first academic building, erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750. A small addition for a Drama Workshop was added in 1957.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was remodeled in 1952, for use as a classroom and office building for the Social Sciences.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, and for many years the home of the Departments of Physics and

Mathematics, will be renovated and reorganized during the summer of 1958 as a classroom and office building for non-laboratory departments.

The Associated Colleges maintain a joint Business Office in Harper Hall, constructed in 1931. The colleges are served by a central heating plant, and by a common shops and maintenance department.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914 and enlarged in 1937, is the original art building of the College. Beginning in 1958-59, it will be devoted entirely to studio purposes.

The Gladys Montgomery Art Center, named for Mrs. Victor Montgomery, which will be ready for occupancy in September, 1958, will amplify our art facilities by providing sculpture studios, a lecture hall, exhibition galleries, and departmental offices.

Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of their daughter who died while a student at Pomona College, offers excellent facilities for the study of music. It contains, in addition to private studios, an unusually beautiful auditorium seating 800.

Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is held and administered by Claremont College on behalf of the Associated Colleges.

The Open-Air Theatre, built in 1910, which is located in Blanchard Park, is in process of reconstruction.

SCIENCE BUILDINGS

A physics-mathematics-astronomy building, costing with equipment approximately \$1,500,000, is nearing completion. This new classroom and laboratory building will be placed in use in September, 1958.

A new biology-geology building, which with equipment will cost over \$1,500,000, is under construction and will be ready for use in the spring or autumn of 1959.

Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908.

Seaver Laboratory, a separate building in the Observatory area, was completed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Mason Hall of Chemistry, the gift of Mr. W. S. Mason, in 1922, provides excellent facilities for the study of Chemistry, and currently houses the Department of Geology.

Crookshank Hall of Zoology, given in 1922 by Dr. D. C. Crookshank, is currently occupied by the Departments of Botany and Zoology.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains lecture rooms and laboratories for the Department of Psychology.

HONNOLD LIBRARY

The Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont College for the Associated Colleges, since 1952 has housed the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, a part of the Scripps College Library, and since 1956 the library of Harvey Mudd College.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to both men and women for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, a hockey field, and basketball courts are within the limits of the campus. A ticket booth, wall, and gate for Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

Athearn Field, given in memory of the late Fred G. Athearn, of the class of 1900, by a group of his business friends, and constructed in 1957-58 on land east of Clark Hall, provides touch football and softball fields, and other recreational facilities for the men's campus.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I. It provides general facilities for the women's department of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953. Its rooms, grouped around three courtyards, accommodate 108 men. Walker Hall also includes a lounge and reception room for the entire men's campus.

Eli P. Clark residence unit for men, erected in 1929, includes three dormitories with accommodations for 286 students.

Albert K. Smiley Hall, the first dormitory for men, built in 1908, and thoroughly renovated during the summer of 1957, accommodates sixty-nine students.

Edwin C. Norton Hall, constructed in 1956, in memory of the late Edwin C. Norton, first faculty member and first Dean at Pomona, contains thirty-six single rooms.

Lucien H. Frary Dining Hall for Men, given by Mr. George W. Marston in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 1892 to 1903, seats 375 in the main hall and includes three smaller dining rooms for special uses.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs. Charles E. Harwood, and including Strong Hall, accommodates 180 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in honor of Mrs. James A. Blaisdell, wife of the fourth President of the College, houses 120 women.

Della Mulock Mudd Hall, which honors the wife of the late Seeley W. Mudd, a Trustee of Pomona, was completed in the spring of 1947. The building has accommodations for 100 women, most of them in single rooms.

A new women's dormitory, Anna May Wig Hall, named in memory of the late Mrs. R. J. Wig, and to be begun in the spring of 1958, will be ready for occupancy in September, 1959.

The College also maintains four smaller residences for women, three of which are used as language houses; the Maison Française for students majoring in French, the Deutsches Haus for students majoring in German, and Casa Hispánica for students majoring in Spanish.

Beautiful and commodious dining facilities are available for all women students. Residents of Harwood Court are served by the Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, which has accommodations for 120 students, serves many special college purposes and occasions.

Gibson Dining Hall, built in 1949, honors the late Jessie E. Gibson, former Dean of Women. It serves the students living in Blaisdell Hall and Mudd Hall.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Student Union, which honors the late fifth President of the College and his wife, provides a social center for all students and an attractive ballroom in which all formal dances are held. This building, made possible by the gifts of many parents, supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including publications, the manager's office, and the Cooperative Store.

The east wing of Edmunds Union, which houses the fountain and sandwich facilities, and also includes a full basement for recreational use, was completed in January, 1951, as a gift of the Associated students.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, is administered by Claremont College and is operated jointly for the benefit of students in all the Associated Colleges at Claremont. Twenty-seven beds are available. The Infirmary is situated on Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. George E. Baxter to Claremont College, serves the students of the Associated Colleges. It provides an office where the College Physicians and a

nurse are available for consultation and the treatment of minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1897, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The College operates its own independent deep well water supply, the gift of Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other associated colleges the beautiful Faculty House which the late Harvey S. Mudd and Mrs. Mudd and the Seeley W. Mudd Foundation gave to Claremont College for the use of the faculties of all the colleges at Claremont. Located just south of the Honnold Library, the Faculty House provides an ideal meeting and recreational center for faculty groups.

THE CLAREMONT INN

The Claremont Inn, beautifully located on College Avenue opposite the campus since 1906, is the guest house of the colleges and community. The Inn is owned and operated by Pomona College. Parents and friends are invited to use the facilities of the Inn during visits to Claremont. Public and private dining rooms and room accommodations for sixty guests are available.

Admission

STUDENTS ARE ADMITTED to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant with his capacities, interests and needs, are mutually well suited to each other.

It is not possible to state a minimum record which will insure admission as the college has many more qualified applicants than available space. In the selection of students academic achievement and promise are primary factors but the Committee makes every effort to take into account character and special aptitudes and skills. The final decision is based on the judgment of the applicant as a person rather than on narrowly technical requirements.

Any person interested in preparing for Pomona, or any school official who is responsible for directing the preparatory programs of students is invited to call on the Dean of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses, but assumes candidates will have taken a college preparatory course. Under ordinary circumstances they are advised to complete at least three years of satisfactory study in English. Two years of mathematics are advised for all candidates; those who plan to study mathematics or the physical sciences in college should have at least three years and preferably four. (See page 72.) Foreign language credit is not required for admission but is highly advised for all students. For concentration in many fields a reading knowledge of at least one foreign language is essential. It is much to the advantage of a student to begin the acquisition of this knowledge before entering college and this is strongly advised. Two or three years in social studies and two or three in sciences are also advised. The major

attention is given to the quality of preparation rather than to the exact arrangement of subjects.

It is normally assumed that candidates will have received a high school diploma. Students from foreign countries or those who are following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

All candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board. (See page 34 for further information.) This requirement does not lessen the importance of the school record, the personal ratings and personal interviews.

Students who request college credit for honors courses taken in high school are required to submit scores on the Advanced Placement Tests given by the College Entrance Board. The decision as to whether or not credit will be allowed will be made by the Classification Committee and reported at the time of registration.

It is recommended that applications be filed at the beginning of the senior year in high school. The Scholastic Aptitude Test should be taken either in December, January, or February, and the candidate is responsible for registering for this with the College Entrance Board. The regular selection of new students will be made from applications received on or before March 1, provided candidates have taken the Scholastic Aptitude Test in February or earlier.

Since there are more applicants than can be accepted, the Committee attempts to select the strongest candidates with little regard to the chronological order in which applications are received. In all cases admission is granted subject to evidence of satisfactory physical condition on the part of the candidate.

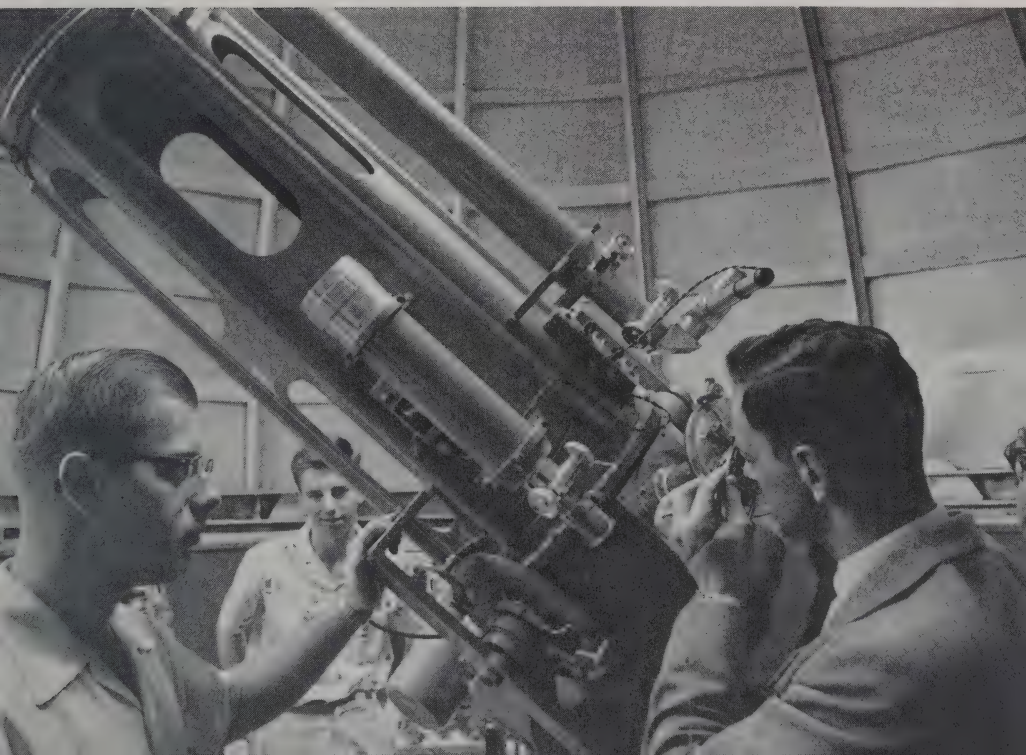
ADMISSION TO ADVANCED STANDING

In considering applications for advanced standing the College follows the general policy used for freshman candidates. It requires an official transcript, or transcripts, of all college work for which the applicant has been previously registered. These transcripts must show the detailed record in all secondary as well as all collegiate institutions attended. The College further requires honorable dismissal from the previously attended institution together with recommendations from the proper college officials. In addition all candidates are required to submit scores on the Scholastic Aptitude Test given by



Bridges Auditorium for the Associated Colleges at Claremont

The Seaver Astronomical Laboratory





The Westergaard Collection Contains Many Choice Art Books

Pomona College Symphony Orchestra in Rehearsal



the College Entrance Examination Board. It is not necessary to repeat the test if it was taken during the Senior year in secondary school.

Credit allowed for work taken in other institutions will be determined by the Classification Committee after the candidate has been accepted.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students, particularly those equipped for advanced studies, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

COMBINED PLAN WITH CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona. For detailed program see page 73.

APPLICATION PROCEDURE

Application for admission to Pomona College must be made on the form furnished by the college and all credentials must be filed with the Committee on Admissions. The forms and credentials required are:

1. *Application Form I.* Including \$10.00 fee, which is not refundable. Make checks or money orders payable to Pomona College.
2. *Two Personal Rating Scales, Form II.* Confidential reports by the principal or other school official, and by a classroom teacher, sent by them to the Committee on Admissions.
3. *A Statement of Qualifications.* The Committee seeks the most complete possible picture of each candidate and to this end requires a personal, autobiographical statement to supplement the other information. Some or all of the following points may be dis-

cussed although the candidate need not consider this an outline to be followed: (1) your preparation or background for college other than that which will be evident from your school record; (2) your major aptitudes and interests either of an academic or non-academic nature; (3) your purposes in going to college; (4) your particular reasons for choosing Pomona College. It is permissible to discuss the paper with others but the writing, both as to ideas and the form in which they are expressed, must be the candidate's. The statement may be typed. The length should not exceed 1,000 words.

4. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system. It should not be sent until the first half of the senior year has been completed.
5. *Medical Certificate*, signed by a licensed M.D., on a form furnished by the college after admission has been granted provisionally. The college reserves the right to reject students for health reasons.
6. *Room Deposit* of \$50 due within thirty days of date of acceptance. No refund of the room deposit will be made if a student withdraws before entrance. (See page 38 for regulations concerning the refund of this deposit.)

Failure to make this payment results in the cancelling of admission. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are held responsible for making application to the Board. Students who plan to enter in September should take the test in December, January, or February. Students who plan to enter in February should take it in May, August or December. Either of the three dates is equally satisfactory. Freshmen are not admitted in February.

The College Entrance Examination Board will hold six series of examinations in 1958-59. Application to take an examination must be filed approximately four weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows.

<i>Date of Tests</i>	<i>Regular</i>	<i>Late</i>
	<i>Registration Closes</i>	<i>Registration Closes</i>
December 6, 1958	November 15, 1958	November 22, 1958
January 10, 1959	December 13, 1958	December 27 1958
February 14, 1959	January 24, 1959	January 31, 1959
March 14, 1959	February 14, 1959	February 28, 1959
May 16, 1959	April 18, 1959	May 2, 1959
August 12, 1959	July 22, 1959	July 29, 1959

The above dates apply to centers on the North American Continent. Information about dates for other centers is contained in the College Board Bulletin of information. There is a penalty fee of \$3.00 for late registrants.

For admission to Pomona College applicants are required to take the Scholastic Aptitude Test only. It is not necessary to take the Achievement Tests.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of \$6.00, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states, territories, and Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

All others should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Expenses

THE EDUCATIONAL and general expense of operating the College is defrayed by payments from students, income from endowment funds, and gifts from alumni, friends, and corporations. The budget for 1958-59 provides for an expenditure of \$1846 per student, exclusive of scholarships and room and board. Of this amount, approximately \$1050 will be paid by the student in tuition and fees, and \$796 must be provided from endowment income and gifts.

The College reserves the right to change any of the following fees at any time should conditions make it necessary.

General Fees

TUITION, including health service, season tickets for Artist Course and Athletic Events	per semester	\$500.00
ASSOCIATED STUDENT DUES	per semester	10.00
GRADUATION FEE		10.00

Residence Fees

ROOM AND BOARD	per semester	\$412.50
In Clark Hall a few rooms with fireplaces are available for men, for which the charge is \$435.50 per semester.		
ROOM DEPOSIT, applicable on payment of bills for final semester of residence. (See pages 34, 38.)		50.00

Departmental Fees

	Per Semester
LABORATORY FEES	\$ 2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 10.00

See Courses of Instruction.

APPLIED MUSIC FEES

For those paying regular tuition:

One-half hour private lesson per week	45.00
Each additional half-hour	40.00

For those carrying less than ten hours of college work, exclusive of work in applied music:

One-half hour private lesson per week	70.00
Each additional half-hour	50.00
Class instruction	25.00

PRACTICE FEES

Piano, one hour daily	6.00
Bridges Hall Organ (four manuals), one hour weekly	5.00

Expenses

37

Two-manual Organ, one hour weekly	2.50
Bridges Auditorium Organ, Claremont College, (advanced students only) one hour weekly	15.00
Students in Music 1, 55, 107, 113, and 158 will be charged \$6.00 per semester for the use of a practice piano unless they are already paying one of the above practice fees.	

Fees for Special Privileges

LATE REGISTRATION (See page 84.)	\$2.00 to 10.00
CHANGE OF PROGRAM (See page 84.)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 63.)	5.00 to 10.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN TEN UNITS OF WORK	per unit	\$50.00
AUDITOR'S FEE	per course	\$10.00

RESIDENCE FOR MEN

The College is equipped with residence and dining halls to accommodate its students. All the residence halls have both single and double rooms. It is expected that single men not actually living at home will room and dine in college halls. Admission is offered on this assumption unless an exception is made in the statement offering admission. Other exceptions to this regulation may be granted by the Dean of Men, but ordinarily only for medical reasons or for others of comparable importance. Students living at home or working for board or room may make special arrangements with the Dean of Men.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge on the men's campus is \$412.50 per semester, but a few rooms with fireplaces are available at \$435.50. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. Linens will be changed and beds made in all halls once a week. On the remaining days men will make their own beds. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

The College has no housing for married students.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood Court. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, and the four College Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be provided by the student are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of \$412.50 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of \$50 for a room in the dormitory. This deposit is held by the College until the student's graduation or withdrawal from residence. Any outstanding charges for damage to college property will be deducted from this deposit, and any remainder will be refunded in the final semester of residence. For a student who withdraws from residence before graduation, the room deposit, less any damage charges, will be refunded provided he has been in residence for one semester or more and gives notice of withdrawal not less than sixty days before the opening of the term for which he is withdrawing.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid at the time of registration. Students wishing to pay by installments may do so by arrangement with the Bursar at the time of registration. At least one-quarter of the total bill for the semester must be paid in advance. Even though the student has a scholarship grant, one-quarter of the remainder of the bill must be paid in cash at the

time of registration. A service charge of from \$1.50 to \$3.00 per semester will be made for deferred payments, according to the number of installments.

It is expected that payment of installments will be made on or before due dates; failure to do so without the approval of the Bursar will result in an additional service charge. A student whose bills are still unpaid at the end of any semester may not register for the following semester until he has arranged for their payment with the Business Office.

No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. of the fourth day preceding Commencement if they are to receive their diplomas with their class.

Scholarships and Student Aid

THE COLLEGE offers an extensive scholarship and student aid program and approximately \$195,000 will be available to Pomona students during 1958-59. These funds are derived from endowments, from individual and corporation gifts, and from the annual Alumni Fund.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equity in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honor and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded solely in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant. No special application is required for Honors at Entrance because all high ranking candidates for admissions are considered for these awards.

Scholarship grants are awarded to students who achieve outstanding records and who need financial assistance to attend college. In making awards the Committee on Scholarships considers the candidate's promise in intellectual fields, his force of character and physical vigor, his probable interest in different aspects of the college community, and his leadership qualities. These factors determine the selection of those to receive scholarships, but the size of the stipend will be determined entirely in accordance with need, unless otherwise indicated. Normally, one-half the annual stipend is paid at the beginning of each semester.

If a scholarship holder's record is satisfactory and need continues, financial aid will be continued during the student's residence in college. Each scholarship holder's record is reviewed annually, with attention being given to the student's participation in and contribution to the college community as well as to his academic record. The amount of the stipend will be determined each year on the basis of the financial situation at that time.

Entering students, either freshmen or Junior College graduates, in need of assistance, should complete by March 1, 1959, an application for admission, and should submit, also by March 1, on forms provided by the college, a financial statement to the College Scholarship

Service. This service, established by the College Entrance Examination Board in 1954 on a nation-wide basis, collects from parents or guardians information relating to the financial resources of scholarship applicants, and sends copies to the colleges and universities to which applicants are applying for scholarship grants. Students transferring from other four-year colleges are not eligible to apply for financial assistance until they have completed a minimum of two semesters in residence at Pomona College.

Scholarships are also available to other matriculated students, and are awarded in open competition, using the same procedure as for freshmen. Applications for matriculated students should be filed in the office of the Dean of Men or the Dean of Women by May 1.

SCHOLARSHIPS AVAILABLE FOR 1958-59

Alumni Scholarships: Five or more scholarships will be awarded from the Alumni Scholarship Fund with stipends which may go as high as \$1000 annually according to financial need. These scholarships are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. Open to men or women students.

Alpha Gamma Sigma Scholarship: One award with maximum stipend of \$1000 is given by Pomona College to a junior college graduate who is recommended by Alpha Gamma Sigma.

Appreciative Parents Scholarship: A scholarship fund of \$15,000 has been established by the parents of a recent graduate in appreciation of the work of the college. The income from the fund is to be used to assist a worthy student who could not otherwise attend Pomona.

The Associated Men Students Scholarships: The Associated Men Students of Pomona College offer annually two awards of \$100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to the man who best exemplifies a combination of scholarship with leadership and attainment in extracurricular activities.

The Donald Houghton Bacon Scholarship: The parents of Donald H. Bacon, who died at the college in 1948, have established in his memory a \$5000 scholarship fund, the income of which provides an annual award to a deserving student who prepared for college at the Tucson, Arizona, High School, and who is recommended by the Superintendent of Schools in Tucson.

George F. Baker Four-Year Scholarships: Pomona is one of several colleges to receive grants from the George F. Baker Trust of New York, for the purpose of awarding scholarships to outstanding young men. The plan of the Baker Trust is to seek out future leaders of American society and to make it

financially possible for them to attend college. Four or more scholarships will be awarded with stipends which may go as high as \$1250 annually, according to financial need. Open to men students only.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has been established in memory of Mrs. Olivia Dennison Baker. The scholarship is open to students of a minority race with preference given to negro candidates. The amount of the award will be determined by the student's need, up to \$1200 annually. It is open either to men or women, to freshmen or transfer students.

The Llewellyn Bixby Memorial Scholarship: A scholarship of \$500 available annually to a man or woman who has completed the freshman year in Pomona College and who shows proficiency and genuine interest in science was endowed by Mrs. Llewellyn Bixby, '01, in memory of her husband.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Scholarships: A fund of \$24,835 provides income which is available for scholarships for men or women.

The Theodore S. Brown Scholarships: A fund of \$25,808 has been established by Mr. and Mrs. Theodore S. Brown, the income from which is available to students of good character who need financial help to remain in college.

The J. Carlyle Bryant Scholarship: Established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45. Available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from \$500 to \$900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

The Frank G. Butler Scholarships: A scholarship fund of \$80,807 has been established in memory of Frank G. Butler, the income from which is available to sophomores, juniors, or seniors who have achieved scholastic distinction.

The Winifred Smith Buxton Scholarship: Winifred Smith Buxton, a member of the class of 1899, has established a scholarship fund of \$9,303, the income from which is to be awarded annually to a worthy student at Pomona College.

The California Bank Scholarship: The California Bank has established a two-year scholarship at Pomona College to assist in his junior and senior years a deserving young man from Southern California who plans to follow a business career after graduation. The recipient will receive \$500 in his junior year and \$500 in his senior year toward the cost of tuition.

California Scholarship Federation Award: A scholarship with maximum stipend of \$1000 is given by Pomona College to a man or woman nominated by the California Scholarship Federation.

The Canfield Foundation Scholarships: The Canfield Foundation has made available \$4000 for scholarships for women students from Los Angeles County entering Pomona College in September, 1958. These scholarships will be continued through the full undergraduate course subject to the approval of the Scholarship Committee and the Foundation.

Chemistry Contest Scholarship: A scholarship with maximum stipend of \$1000 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Chemical Society. The recipient must be among the top fifteen contestants, and must satisfy all entrance requirements of the College.

The Claremont Church Scholarship: A scholarship of \$250 to be awarded each year to an upperclass student planning on life-time Christian service or to a senior about to enter seminary training. Choice is made in the spring by the Scholarship Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Claremont Church.

The Kate Condit Memorial Scholarship: A scholarship of \$100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

Crown Zellerbach Foundation Scholarship: A scholarship of \$900 for the academic year 1958-59 will be given by the Crown Zellerbach Foundation to a junior or senior student majoring in the field of Economics. A grant is also made to the college budget to help defray the full cost of instruction.

Cyprus Mines Corporation Scholarship: An award of \$1250, available for the academic year 1958-59, has been provided by Cyprus Mines Corporation.

The George Curtis De Garmo Scholarship: The late George Curtis De Garmo of Los Angeles has established a scholarship fund of \$17,406 at Pomona College, the income from which is available annually to a worthy student.

The Douglas Aircraft Company Scholarship: The Douglas Aircraft Company has established a scholarship of \$1250 for the academic year 1958-59 to be awarded to a sophomore or junior at Pomona College enrolled in the combined engineering program with Massachusetts Institute of Technology or the California Institute of Technology. A grant is also made to the college budget to help defray the full cost of instruction.

Thomas J. Dowling Scholarships: A fund of \$10,000 provides income which is available for awards to men and women.

The Richard P. Edmunds Memorial Fund provides a scholarship of full tuition for an upper division man student (preferably one who has attended Pomona during the first two years) nominated to the Scholarship Committee by the Professor of Physics.

The Malcolm Eversole Memorial Fund: A scholarship providing full tuition for a man in the Junior Class to be nominated to the Scholarship Committee by the President of the College at the end of the nominee's second year in Pomona College. The selection is based not on scholastic rank only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character.

Executives' Secretaries, Inc., Pomona Valley Chapter Scholarship: An award of \$1000 provided by the Pomona Valley Chapter of Executives' Secretaries, Inc., is available to a woman student at Pomona College who needs financial assistance in her college education. A student looking toward a business or professional career is preferred, but the selection of the recipient shall rest with the Scholarship Committee of Pomona College.

The William C. Free and Mazy Bell Free Scholarships: The late Mrs. William C. Free of Pasadena has established a trust fund from which an income of approximately \$8000 per year is available to Pomona College for the awarding of scholarships to students in any of the four classes. One of these scholarships is reserved for a student concentrating in music.

Graham Brothers Foundation: A scholarship covering full tuition will be available for the academic year 1958-59. A grant will also be made to the college budget to help defray the full cost of instruction.

Margaret Burton Harwood Scholarships: A fund of \$50,000 has been established, income from which is available for scholarship awards to men or women.

The Haynes Foundation Scholarships: A scholarship of \$900 and a tuition-subsistence scholarship of \$1400 have been established at Pomona College by the John Randolph Haynes and Dora Haynes Foundation to assist deserving senior students in the Social Sciences. The criteria of award include exceptional scholastic record, character, promise of professional growth, industry, and need. It is also desired that the candidates obtain some kind of internship experience in their chosen fields, or be required to write a special senior thesis. In addition to these awards, the Haynes Foundation has made a further grant of \$2300 which will be available to advanced students in the Social Sciences for 1958-59.

The A. L. Hobson Memorial Scholarship: A scholarship of \$630 open to a man student from Ventura County, California, who needs financial assistance to attend college. The recipient may be a member of any class at Pomona.

The Paul Mylrea Holden Scholarship: The late Mrs. Susie Mylrea Holden has established at Pomona College a scholarship fund of \$10,000 in memory of her son, the income from which is available annually to students who need financial help.

The Houchin Foundation Scholarship: A fund of \$5000 has been established by the late Mr. C. E. Houchin of Bakersfield, income from which is available to junior or senior students who need financial aid to finish college.

The William J. Howard Memorial Scholarship Fund: Established by alumni and friends in memory of William J. Howard, '14. A scholarship of \$150 is awarded annually to a student for lessons in applied music.

The James Irvine Scholarships: A scholarship fund of \$60,000 has been established by the James Irvine Foundation, the income from which will be used to assist both men and women students at Pomona College in paying their tuition, board, lodging, and other expenses incidental to their education at the College. These scholarships are limited to students residing in the State of California, preference to be given to those in Orange County.

Junior College Scholarships: One or more awards, with a maximum stipend of \$1200, is available to Junior College graduates.

The Kappa Delta Honor Scholarship: An annual scholarship of \$750, established in 1926 by alumni members of Kappa Delta Fraternity and administered under a special committee, is awarded at the beginning of his senior year to an outstanding all-around man, who shows qualities of character, intellect, leadership, sportsmanship, and proficiency in athletic pursuits. The recipient must have been in residence during all three lower years, and must rank in the highest third of all the men in his class.

The Clayton A. and Lottie Culler Langworthy Memorial Scholarships: A scholarship fund of \$25,957 has been established by the late Mrs. Clayton A. Langworthy, the income from which is to be used for the education of worthy young persons with ambition and ability who otherwise would have to forego an education.

Bertha Lebus Scholarship: A scholarship of \$850 endowed by Miss Bertha Lebus is available annually to a matriculated student attending the college. The recipient must be a person who shows a high degree of promise and who needs financial assistance.

Maria K. Lloyd Scholarship: This scholarship is available to an outstanding candidate who is now a resident and citizen of Greece or Turkey. The amount of the award will be determined by the student's need. It may cover as much as all college expenses for the full four years.

The John G. Locke Scholarship: A scholarship fund of \$5000 has been established by the late John G. Locke of La Jolla, income from which is to be available to a worthy student at Pomona College.

Lockheed Scholarships: The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and \$500 a year toward other college expenses, plus a grant to the college budget to help defray the full cost of instruction.

The Richard N. Loucks, Jr., Music Scholarship: A scholarship fund of \$15,000 has been established by Mr. Benjamin M. Stansbury, of La Canada, in

honor of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail*. The income is awarded annually to a student majoring in applied music.

The George H. Mayr Educational Foundation Scholarships: The George H. Mayr Educational Foundation has made available a scholarship fund of approximately \$7000 per year for the assistance of students from California who need financial aid to attend Pomona College.

The Amélie Augustine McAlister Scholarships: The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of \$100,000, the income from which provides scholarships for women. McAlister Scholarships are available to women in any class who need financial assistance to attend college.

The Robert McFadden Memorial Scholarship: A scholarship of approximately \$500, available annually to a man student, has been established in memory of Robert McFadden, '37, who was killed in action in World War II.

The Elizabeth McIntyre Scholarship: A scholarship fund of \$27,156 has been established by the late Miss Elizabeth McIntyre, income from which is available for scholarships at Pomona College.

The Frank H. Merrill Memorial Scholarship: A four-year scholarship, to be awarded to a student whose interest is primarily in the field of science, includes full tuition of \$1000 plus as much as \$500 a year toward other college expenses. This scholarship has been established by Mr. Willis H. Merrill, '30, in memory of his father.

The Mississippi Scholarship: An endowed scholarship, with income of approximately \$900 annually, has been established anonymously as a tribute to the donor's native state. Open to a man or woman in any class.

The Faxon More Memorial Scholarships: Two scholarships of \$900 each are available annually to men students of well rounded interests and promise of leadership. These scholarships were established by Mrs. Mary E. More of Goleta in memory of her son.

Music Scholarships: Ten awards of \$170 each, to cover the cost of lessons in applied music, will be available in 1958-59.

The Blair Nixon Memorial Award: An annual award of \$170 is made from a fund established by his parents and friends in memory of Blair Nixon, '33, to a senior varsity letter winner who exemplifies the high ideals of the college in scholarship and sportsmanship. The award is made on nomination of a special committee and is presented to a Pomona man at the beginning of his senior year.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship of \$550, endowed by the late Mr. and Mrs. Arthur Noble, is available annually to a student in any class who needs financial assistance.

The Nu Alpha Phi Memorial Scholarship: A scholarship of \$800 endowed by the members of Nu Alpha Phi Fraternity is awarded annually to a man at the beginning of his junior year. Selection is made by a special committee on the basis of outstanding character and real financial need, the latter partially determined by records of student employment during the school year. Given in memory of the Fraternity's losses in World War II.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of \$250 is awarded to a qualified student on the basis of musical ability on an orchestral instrument. It is endowed anonymously in tribute to Everett S. Olive, late Professor of Piano, whose interest has been an important factor in the development of the orchestra. It is normally given to a freshman. The scholarship is awarded on the joint recommendation of the Music Department and the Committee on Scholarships. An audition is normally required.

Orchestral Scholarship: An annual scholarship of \$250 is available to a qualified student who will continue study of his instrument in the Pomona College Music Department. Awarded on the basis of musical ability and orchestral competence. Will normally be given to a Freshman after audition by the Music Department.

The Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: A scholarship of \$200 given in memory of Walter H. Parsons, '04, and Hazen M. Parsons, '09, is available annually to a man or woman in any class who needs financial assistance to attend college.

The Phi Beta Kappa Scholarship: A scholarship of \$200 endowed by the Pomona Chapter of Phi Beta Kappa is awarded at the beginning of the second semester to a senior who has been in residence for three years at Pomona and who is selected for the high quality of his scholarship and his promise of future distinction. The award is open to both men and women.

Pacific Employers Insurance Company Scholarships: Scholarships for young men planning to enter any field of business, have been established at Pomona College by the Pacific Employers Insurance Company. Stipends are based on financial need and may be as much as \$1000 annually. A grant is also made to the college budget to help defray the full cost of instruction.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of \$800 from The Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the class of 1900 in memory of his wife, is available to a woman student in the sophomore, junior, or senior class who has shown scholarship ability and who requires financial assistance to remain in college.

The POA Scholarships: Beginning September, 1958, the Pacific Outdoor Advertising Company will offer one four-year scholarship each year for four years to a well-rounded young man who is interested in a field of study leading to a career in teaching or business. The scholarship will provide full tuition

and fees for four years, and will provide summer employment. A grant will also be made to the college budget to help defray the full cost of instruction.

John W. Porter Trust Scholarship: A scholarship of \$500, available to a student from the Long Beach area, is provided annually by the John W. Porter Trust.

The Presser Foundation Scholarships: A fund of \$350 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department to students who are interested in music education or other advanced work in music.

The Physics Contest Scholarship: A scholarship with maximum stipend of \$1000 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Association of Physics Teachers. The recipient must be among the top fifteen contestants, and must satisfy all entrance requirements of the College.

The Clara S. Ratekin Scholarships: The late Mrs. Clara S. Ratekin of Covina has established a fund of \$463,141, the income from which is to be used to defray the educational expenses of worthy young men and women. These awards are open to students in any class.

The Mabel Wilson Richards Scholarships: The Mabel Wilson Richards Scholarship Fund of Los Angeles has made available scholarship assistance for worthy and needy women students from the metropolitan Los Angeles area.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of \$1000 established by Mrs. Lucina Rodi Updegraff, is available annually to a man studying toward a career in medicine. The award is made on the basis of ability and need, and may be available to the same student for more than one year, at the discretion of the Committee on Scholarships.

The Alice M. Sanborn Scholarship: A scholarship of \$500 annually, endowed by the late Alice M. Sanborn, is available to a man selected by the Scholarship Committee as a representative student at the college. The candidate shall be selected at the beginning of his junior year, and shall receive the scholarship for both his junior and senior years, provided he remains worthy of continued assistance.

The Shatto Memorial Scholarship: A scholarship of \$250 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Fund for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Scholarship Committee.

The Frank Wilson Stafford and Julian Tate Stafford Scholarship: A memorial scholarship of \$900 per year, available to a man studying toward a career in law or engineering, has been established by Mrs. Grace T. Stafford of Pasadena.



Walker Residence Hall and Lounge and Frary Dining Hall for Men



Room in the Helen R. Walker Residence for Freshmen



Modern Calculators and Adding Machines of the Economic Laboratory

Pomona Is a Leader in the Education of Distinguished Scientists





Patio of Harwood Court—Residence Hall for Women

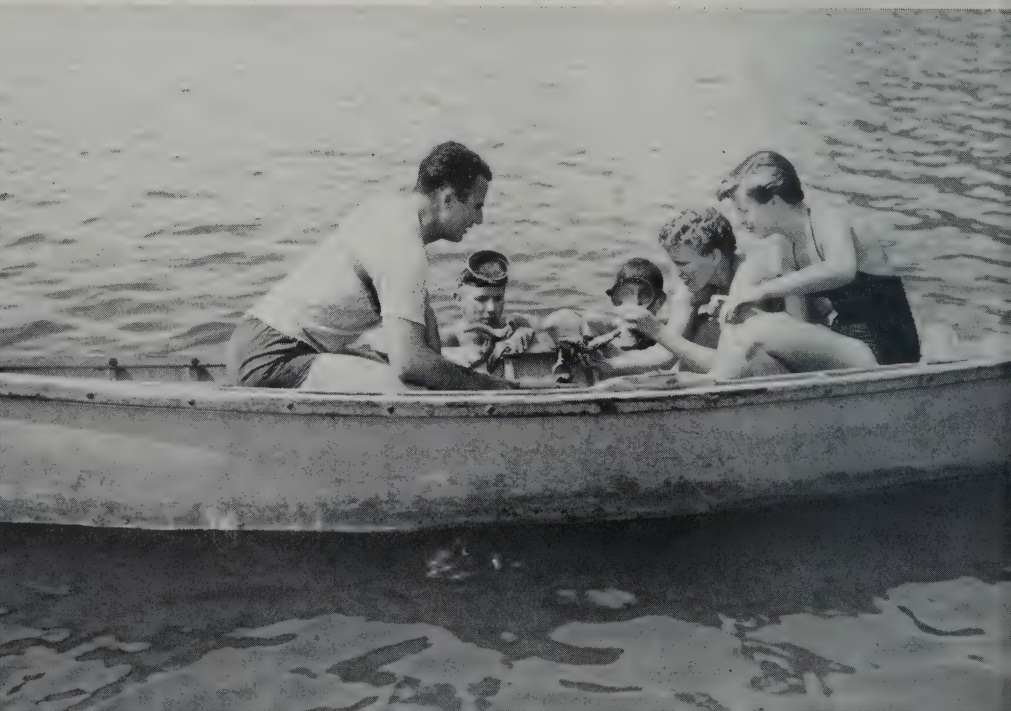


Gibson Dining Hall for Women



Tea at the President's House for Students from Overseas

Class in Marine Zoology



Standard Oil Company Scholarships: A scholarship of \$750 for a student in Engineering and Physical Science is made available for the academic year 1958-59 by the Standard Oil Company of California.

The Olivia Phelps Stokes Scholarships: A scholarship fund of \$47,000 provides income which is available to worthy students at Pomona College.

The Henry E. Storrs and Julia A. Storrs Scholarships: A fund of \$25,000 provides income for scholarship awards to men students.

The Richard E. Strehle Memorial Scholarship: A scholarship of \$375 established in memory of Richard E. Strehle, '41, who was killed in action in the Philippines in World War II, is awarded annually to a junior or senior man with the physical, mental and moral qualities desirable in a field geologist. Choice is made near the end of the sophomore or junior year, on nomination by the Geology Department to the Scholarship Committee. The award may be withheld in any year, and additional awards may be made in years when extra income is available.

Andrew Acker Sugg Memorial Scholarship: A scholarship of \$1000 available annually to a junior or senior man who shows promise of outstanding work in the field of science has been established by Mrs. Andrew Acker Sugg in memory of her husband.

The Hannah Tempest Scholarships: Two scholarships of \$125 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

The Texas Company Scholarships: The Texas Company has established a four-year scholarship at Pomona College for a man student in each entering class who has selected a curriculum preparing him for a career in the petroleum industry. Applicants must be United States citizens, must be in the upper third of their graduating classes, must show financial need, and must show evidence of good health and physical fitness. The scholarship covers tuition and the cost of books and fees, and in addition provides a grant to the college budget to help defray the full cost of instruction.

The Union Tribune Charities Scholarships: The Union Tribune Publishing Company of San Diego has established one scholarship of \$200 in each of the four classes. A student receiving one of these scholarships for one year may continue to be a candidate for them in another school year. Preference will be given to students interested in journalism who come from San Diego county, but scholarships are open to all students.

STUDENT AID FUNDS

In addition to the foregoing scholarships, income from the following special funds is available for the use of worthy and needy students:

The Crombie Allen Scholarship Fund of \$1000, half of the income available annually to a graduate of Chaffey Union High School and half to a graduate of Chaffey College of Ontario, California.

The Francis Bancroft Memorial Fund of \$1500, given by Mrs. James T. Ford in memory of her father.

The L. H. Barrows Fund of \$2500.

The Martha E. Berry Memorial Fund of \$6000, for foreign students.

The H. G. Billings Memorial Fund of \$1000.

The Florence G. Bixby Fund of \$5000.

The Hagop Bogigian Fund of \$31,402.

The Mabel S. Bridges Memorial Fund of \$3500, available for women.

The Sherlock Bristol Memorial Fund of \$400.

The Bessie A. Brown Memorial Fund of \$800, given by Mrs. Fannie E. Brown.

The Henry Herbert Brown Memorial Fund of \$1000 given by Mrs. Fannie E. Brown in memory of her son.

The Perry W. and Estelle H. Clark Fund of \$5575.

The Grace C. Cheney Student Aid Fund of \$4875.

The Emily Gilbert Cleghorn Memorial Fund of \$1000, given by Arthur M. Cleghorn, '03, in memory of his wife, the income to be used for the Student Emergency Fund.

The Class of 1918 Fund, \$961.

The Charles C. Cragin Memorial Fund of \$4620, given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

The Agnes K. Crawford Memorial Fund of \$1000, given by David R. Crawford and William Crawford in memory of their mother.

Ebell Club of Pomona Student Aid Fund of \$1000. To help a woman student.

The Elwood Fund of \$2600, given by Mary E. Elwood.

The Ford Fund of \$2500, given by Rev. James T. Ford.

The Margaret Fowler Fund of \$1000.

The Orren A. Gorton Fund of \$5000.

The Annie M. Green Fund of \$768.

The Emma K. Guild Fund of \$44,887.

The Manette Hand Memorial Fund of \$1500.

The Alfred James Harwood Memorial Fund of \$8000.

The Alice Paul Harwood Scholarship Fund of \$5000, open to graduates of Chaffey Union High School of Ontario.

The Charles E. Harwood Fund of \$5000.

The Thomas F. Howard Memorial Fund of \$3500, given by Dr. and Mrs. H. G. Brainerd in memory of Mrs. Brainerd's father.

The Mary Marvin Janes Fund of \$679.

The Helen Day Jewell Fund of \$1000.

The Stella M. King Scholarship and Loan Fund for Women, \$10,000.

The Henry L. Kuns Fund of \$2000.

The Jean Loomis Fund of \$2000.

The Howard J. Mills Memorial Fund of \$3000.

The Ontario Congregational Church Fund of \$186, given by the Ontario Congregational Church toward the endowment of a fund.

The Page Fund of \$5000, given by Mrs. Loraine H. Page. (Three thousand dollars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Fund of \$2000, given by Mrs. C. S. Phelps and Mr. C. A. Phelps in memory of their son and brother.

The Lydia Phelps Memorial Fund of \$4000.

The Pilgrim Church of Pomona Fund, \$2002, given by the Pilgrim Congregational Church of Pomona.

The Pilgrim Church Women's Auxiliary Fund of \$556, given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

The John D. Potter Memorial Fund of \$2000, given by Mrs. S. T. Potter in memory of her husband.

The Francis M. Price Fund of \$1000, for children of missionaries.

The Anna H. Searing Fund of \$1800.

The Clyde H. Shields Memorial Fund of \$2000, given by R. P. Shields in memory of his oldest son.

The Lucia Glidden Strong Fund of \$911.

The Sweet Memorial Fund of \$2500, given by Harlan P. Sweet in memory of his wife.

The Susan E. Thatcher Fund of \$5810.

The Willard E. and Henrietta P. Thompson Endowment Fund of \$38,537, the income from which provides funds for one or more departments of the

college to employ students for clerical or other work. Only those students who need financial assistance are eligible.

The Maria T. Wardwell Fund of \$1000.

The Clara B. Waterman Memorial Fund of \$5000, given by Miss Rosa May Bennett.

The Henry S. West Fund of \$2000.

LOAN FUNDS

The college also administers loan funds by which it is possible to cooperate with the urgent need of students in making available to them amounts sufficient to cover tuition fees. Interest at the rate of 4% per annum begins on graduation or at the time of leaving the college. Loans from the following funds may be available, applications for which should be addressed to the Committee on Scholarships and Student Aid.

The Alumni Loan Fund of \$300.

General Loan Fund of \$81,277.

The Caroline Phelps Stokes Fund of \$25,000, endowed by the will of Olivia Eggleston Phelps Stokes in memory of her sister, income from which is available for loans.

The Ethan Allen Chase and Augusta Field Chase Fund of \$5,527, available for men.

The Ray Loan Fund of \$1290, given by Mrs. E. F. Ray, to provide a means of meeting situations of temporary need.

The David Clark Fund of \$1162.

The Robert C. Denison Memorial Fund of \$581.

The Edwin C. Norton Memorial Loan Fund of \$1575, available for undergraduate students, or for graduates of the college who wish to pursue advanced work in other institutions.

The C. F. Baker Memorial Loan Fund of \$319, available for undergraduate students, preferably juniors or seniors in the departments of Botany and Zoology, who are approved by the heads of those departments.

The A. G. McKenna Loan Fund of \$3000, available to graduating seniors for advanced work at the institution of the student's choice.

The Anna Bruce Memorial Loan Fund for Women, of \$530.

The Ellen H. Lyman Fund of \$280.

The Yates Loan Fund of \$2000.

The Mabel Allen Lee Loan Fund of \$100.

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as clerical work, baby sitting, janitor work, waiting on tables, general house work and gardening.

Applications for aid in securing employment should be addressed to the Director of Placement Service, Sumner Hall.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE WORK

The following awards may be made for 1959-60 to graduating seniors if qualified applicants appear. Applications for these fellowships should be in the hands of the Committee on Scholarships by March 15, 1959 except in the case of the Harsh Fellowship, application for which should be made to the Claremont Graduate School.

The Henry Martyn Bracken Foundation and the *Emily Robinson Bracken Foundation* provide two or more fellowships for graduate work in the Claremont Graduate School. When in any year a graduating senior does not qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Claremont Graduate School provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with a stipend determined by the committee of award according to individual circumstances. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the junior and senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Scholarships, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the School of Law at the University of Chicago will be awarded by the Pomona College Committee on Scholarships. Stipend is normally \$720 and is renewable for two years if the student's record is satisfactory.

University of Chicago School of Business Honor Scholarship: A scholarship in the School of Business at the University of Chicago is available to a graduating senior on recommendation by the Committee on Scholarships. Stipend provides full tuition for one year and is renewable for a second year if satisfactory performance is maintained.

The Committee on Scholarships also nominates students of Pomona College who wish to apply for awards by other institutions and foundations.

CLAREMONT GRADUATE SCHOOL FELLOWSHIPS

In addition to the awards for graduating seniors offered through Pomona College, scholarships for graduate study leading to advanced degrees are available at the Claremont Graduate School.

General scholarships and fellowships ranging in value from \$600 to \$2,000 are awarded for graduate work in the field of the candidate's choice. Several endowed and special scholarships are also available. A few graduate assistantships with half tuition in the Claremont Graduate School are offered through the undergraduate colleges at Claremont and the Rancho Santa Ana Botanic Garden.

Academic Distinctions

POMONA COLLEGE offers a number of academic distinctions, awards, and prizes to its students. These are given on the basis of academic excellence, and unlike the scholarships listed on pages 41 to 49, are awarded without reference to financial need.

POMONA COLLEGE SCHOLARS

Students who have achieved an academic average of 3.6 in any one year are elected Pomona College Scholars for that year. This is the highest academic award which the college confers on its students.

PHI BETA KAPPA

The Pomona Chapter of Phi Beta Kappa, established in 1914, is the Gamma of California. Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

PRIZES AND AWARDS

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of \$50 to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Mary Ford Bacon Memorial Prizes: Three prizes of \$100 each for the best essays or monographs relating to the Constitution of the United States are awarded annually by the Departments of History, Government, and Economics. The three contests are conducted separately under special rules made by the faculty of each department. Entries are judged with due regard for effectiveness of style, originality of thought and depth of insight into the spirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books and other materials on the Constitution recommended by the faculty in history, government, and economics.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of \$50 is made to the sophomore man who during his freshman

year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Scholarship Committee and is presented at the Opening Convocation in September.

ART

The Rembrandt Club Art Prizes: A number of prizes, totalling \$75, are awarded by the Rembrandt Club in the form of books for excellence in drawing, design, painting, sculpture and art history.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebooks kept in accordance with the teacher's suggestion. Prizes totaling \$50 are endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of \$25 to be awarded to an outstanding student in Botany or Zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of \$50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of \$100 awarded at the beginning of the college year to a senior student majoring in chemistry or geology who, in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of \$100, made possible by the Morris B. Pendleton Fund, are awarded annually to economics seniors who have distinguished themselves for their work in the department.

EDUCATION

The Ada May Fitts Education Prize: A prize of \$50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a student for excellence in courses in the Department of Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye III, who was a Lieu-

tenant in the Army Air Corps, is offered an annual award of \$100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Three prizes for men and three prizes for women of \$50, \$40, and \$30, respectively, for excellence in English are available each semester to members of the Freshman class taking English 1. In the award of these prizes attention is given to the interest shown by the student in improving the quality of his written and spoken English.

GERMAN

The Fritz F. Beer Prizes: An award of \$20 is offered to the student enrolled in a course on German literature who submits the best essay on a literary topic set by the department. An award of \$15 is to be given for outstanding work in second year German to a student concentrating in the Pure Sciences and an award of \$15 is to be given to a student concentrating in either the Humanities or the Social Sciences.

GOVERNMENT

The Edward M. Sait Prize: A prize of \$5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of \$5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of \$5 for the purchase of an appropriate book, or for a subscription to a selected law review is awarded to the student doing the best work in constitutional law and jurisprudence.

INTERNATIONAL RELATIONS

The Cordell Hull Prize: An award of \$50 is offered annually to the student who submits to the committee on International Relations the best essay on a problem relating to the United Nations. Subjects must be cleared with the secretary of the committee on or before April 1, and the essays, between 2500 and 3000 words in length, must be submitted in triplicate on or before May 1. In case no one essay is of outstanding merit, the committee reserves the right either to divide the honors or to make no award.

LATIN

The Mudge Latin Prizes: First and second prizes of \$10 and \$5, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of at least \$15 in the form of a purchase order for books is offered for the best library submitted by a senior

student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of \$25 for excellence in Analytic Geometry and Calculus is open to all students completing both Mathematics 1 or 52 and 65.

The Jaeger Mathematics Prize: A prize of \$25 to be awarded annually to a freshman in a beginning mathematics course is endowed by Chester G. and Elfrieda A. Jaeger.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of \$50 to be awarded to a student in the department of music, above freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSICS

The Tileston Physics Prizes: Two prizes have been established in memory of Professor Roland R. Tileston by former students and by members of his family; a prize of \$10 to the outstanding freshman or sophomore student in the Physics 1 course; a prize of \$50 to the junior student in physics whose record in the course and department work is judged most promising.

PUBLIC SPEAKING

The Kinney Declamation Prizes: A prize declamation contest open to members of the Freshman class occurs early in the second semester. First, second, and third prizes of \$25, \$20, and \$15, respectively, were endowed by the late Mrs. H. N. Kinney.

The Dole Debate Prizes: A prize debate for lower-division men is held near the close of the second semester. First and second prizes of \$30 and \$20, respectively, established by the late Mr. John H. Dole in memory of his brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: The opportunity to compete for prizes totalling \$75 for speeches of their own composition is offered to upper-division students. The judges have the right to distribute the prize money among the contestants as they see fit, or to withhold all awards if they feel warranted in so doing. These prizes were endowed by the late S. H. Wheeler, in memory of Miss Stella King.

RELIGION

The Hager Prize: A prize of \$25 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R. Hager.

General Information

LIBRARY

POMONA COLLEGE shares with the other Associated Colleges the facilities of the Honnold Library, which houses approximately 260,000 volumes and over 200,000 bound and unbound United States and California government documents, and an uncatalogued pamphlet collection. Of this total, 147,000 volumes and the government documents comprise the holdings of the Pomona College Library, which is a depository for U.S. Government Documents, California State Documents, and the publications of the Carnegie Institution.

The Library subscribes to 1700 periodicals, and maintains bound files of over 1300, many of which are complete. Especially valuable are the periodical holdings in the field of natural science.

The following Pomona College special collections are a part of the general library: the Cook-Baker Biological Library and the Parish Botany Library in Crookshank Hall and the Rancho Santa Ana Botanic Garden building; the James A. Lyman Memorial Library of Chemistry and the Geology Library in Mason Hall; and the Mathematics and Physics Library. Special Pomona libraries housed in the main building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, and the Viola Minor Westergaard and Carnegie Art Collections.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, Harvey Mudd College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library on the Scripps campus.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published monthly except July and August. These include: the *Annual Catalog*, the *Report of the President*, and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing

distinguished lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Thursday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

On five stated occasions during the year, including the opening of each semester, a College Convocation is held. Full attendance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The five Associated Colleges at Claremont unite in a College Church which holds its services each Sunday morning at eleven o'clock in Bridges Hall of Music. The Church is the coordinating force for religious activities among the colleges. Students participate in the services and there is a special student choir.

The Pomona College Chapel, which is altogether a service of worship, is held every Tuesday morning from 11:00 to 11:25 in Bridges Hall of Music. Both students and faculty participate in the service, at which attendance is voluntary.

Various expressions of religious interest and forms of religious activity exist on the Pomona campus: worship, study and discussion groups, campus and community programs of service, and contacts with intercollegiate enterprises. These interests and their sponsoring organizations are centered in the College Church as a campus-wide agency to encourage interest in religion and to develop religious activities. The College Church maintains relationships with the national Student Christian Movement and the World Student Christian Federation.

MUSIC

The College cooperates with Scripps College, Claremont Men's College, Harvey Mudd College, and the Claremont Graduate School in

the presentation in Bridges Auditorium of the most distinguished masters in the field of music. Regularly included in the series is the Los Angeles Philharmonic Orchestra.

For the concerts thus afforded an annual ticket is furnished without extra charge to each full-time student.

Under the auspices of the Pomona College Department of Music, public recitals by individual students and members of the faculty and by groups are given frequently throughout the year.

The Pomona College Symphony Orchestra, the Choir, the Men's and Women's Glee Clubs, the Band, and chamber music groups, afford opportunity for the study and public performance of the finest in ensemble music.

CAMPUS ORGANIZATIONS

The Associated Students: This association, whose officers are elected by the student body, coordinates all student activities. It is headed by an Executive Council, composed of class presidents and chairmen of other organizations representing various activities. The men and women students each have separate organizations to promote their respective interests, and each of the four classes is organized for class social life.

Honor Societies: Ghosts, for men; Mortar Board, for women.

Honorary Fraternities: Gamma Chapter of Alpha Kappa Delta, sociology fraternity; California Alpha Chapter of Kappa Mu Epsilon, national honorary mathematical fraternity; Delta Sigma Rho, national honorary forensic fraternity; Delta Phi Alpha, local chapter of the national honorary German society.

Local Social Fraternities: From the early days of the college, Pomona has sponsored a system of local fraternities. Currently there are six such fraternities on the campus: Alpha Gamma Sigma, Kappa Delta, Kappa Theta Epsilon, Nu Alpha Phi, Phi Delta, and Sigma Tau. The college provides a club room for each fraternity in the residence halls on the men's campus. Fraternity members live in the residence halls and take their meals in the college dining halls. The fraternities pledge new members during the sophomore year. Of those eligible, approximately 66% were members of fraternities in 1957-58. There are no sororities on the campus.

Departmental Organizations: El Circulo Español, Le Cercle Français, Deutscher Verein, American Chemical Society, Caducean Society, Economics Club, Classics Club.

Dramatic Organizations: Drama Productions, Masquers and Thespians, in dramatics; Orchesis, in dancing.

KSPC: An FM radio station owned and operated by Pomona students, covers the campus and the surrounding area and provides radio experience for interested students.

Other Organizations: World Affairs Council, Cosmopolitan Club, Camera Club, Ski Club, Women's Recreational Association.

STUDENT PUBLICATIONS

The Student Life, the weekly newspaper, which was established in 1889, is the oldest college newspaper in Southern California.

Other student publications are: the *Metate*, the yearbook, and the *Hand Book*, which contains material designed especially for new students.

FACULTY-STUDENT COMMITTEES

Pomona College assumes that most of the matters which affect the College are of concern to both faculty and students and believes that the experience and the judgment of both should be taken into account in the management of much of the college life. For this reason a large number of the policy forming committees of the college have both faculty and students as voting members. These committees now include the following: Admissions, Athletic Council, College Life Council, Personnel, Public Events, Religious Activities, Student Affairs and Vocational Counseling and Placement.

CONDUCT

Pomona College assumes that its students, having voluntarily enrolled, are in sympathy with its purposes and philosophy, and will abide by its accepted practices. This basic philosophy is that all members of the college community will govern their conduct by standards of good taste and ethical judgment, and will exercise their responsibility as members of the community when these standards are disregarded by others. Any behavior on or off the campus which may bring discredit to the individual or to the College may result in disciplinary action.

The use or possession of alcoholic liquors of any kind on the campus is prohibited by the college.

Students are held responsible for the AMS and AWS residence rules.

The faculty has placed the interpretation and execution of these policies in the hands of the Committee on Student Affairs, which consists of the deans and certain faculty members appointed by the President and four student members appointed by the Executive Council of the Associated Students. Under this Committee as a policy-making body the College Life Council functions, composed of seven faculty members appointed by the President and eleven student members elected from the student body.

Since 1948-49 the College Life Council has been delegated the responsibility for dealing with inter-class rivalry, for supervision of fraternities, for regulations governing the use of automobiles, and for the administration of discipline except for cases involving infringements of academic honesty and honor.

The Judiciary Councils of the Associated Women Students and the Associated Men Students administer regulations concerning conduct in the residence halls on their respective campuses, and, acting together as a joint body, carry out the policies of the College Life Council and act as a court or advisory body in matters of discipline, except in those considered by the deans to involve serious problems of personality adjustment. The Judiciary Councils are empowered by the College Life Council to take disciplinary action up to and including expulsion in cases of misconduct. Any member of the Judiciary or any defendant in a judiciary case may appeal any judiciary decision to the College Life Council.

Individual or collective student enterprises which use the college name and involve the absence of the participants from the college must receive the official sanction of the Committee on Student Affairs.

AUTOMOBILES AND MOTORCYCLES

Rules governing student use of motor vehicles are determined and administered by the Associated Colleges. Students maintaining motor vehicles in Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with its license number, must be registered with the Campus Police during college registration at the opening of each semester or within three days after the car is driven in Claremont. The student is responsible for displaying on the windshield of his automobile the Associated Colleges sticker affixed at the time of registering the car. At that time the student must also furnish evidence of having liability in-

insurance. For temporary use of two weeks or less the student is obligated to secure a temporary permit from the Campus Police Department within three days after the car is driven in Claremont, or he will be subject to penalty. A temporary sticker may be secured only once a semester. In this instance no fee is charged.

A student's car is assigned to a particular campus parking lot at the time of registration, and it may not be parked without penalty on public or private streets in the campus area or other parking lots of the colleges from 2:00 a.m. to 6:00 p.m. Likewise the student residing off campus may use only the parking lot to which his car is assigned. Campus curb parking is reserved for visitors and maintenance vehicles during the day.

The student receives when registering the vehicle a booklet of information and regulations for which he is responsible. A driver must at all times, both on and off the campus, exercise particular care and consideration for the safety of himself and others, and must acquaint himself with the state and local traffic laws and comply with their observance.

No campus resident student may use or park a motorcycle or a motor scooter anywhere on the campuses, grounds or streets of the Associated Colleges. A student may drive or keep a motorcycle outside of college limits provided he does not bring it on any part of the campuses.

An off-campus resident who needs a motorcycle or a motor scooter for commuting purposes may secure a special permit and driving instructions from the Campus Police Department. This permit is solely for commuting to the campus, not for driving about the campuses or college streets. The fee for motorcycle and motor scooter registration is the same as for an off-campus student's car permit.

Failure to comply with the regulations stated above and in the booklet of information issued to the student when he registers his vehicle shall constitute an offense against the college. The penalty for violation of motor vehicle regulations of the Associated Colleges may include fines, temporary sequestration and storage of the vehicle at the student's risk and expense, loss of campus driving privileges, or suspension from college. Regulations are systematically enforced.

A heavy fine is assessed for failure to register a motor vehicle within the time limit stated above or for failure to display the authorized registration sticker on the windshield.



The Students Operate Their Own FM Radio Station

The Edmunds Union Serves as a Campus Social Center





Pomona-Claremont Voluntary Unit of the ROTC

Playing Fields Are Gathering Places for Men in the Late Afternoon



Vehicle Registration Fees: A campus-resident student who keeps a car on campus will be charged a fee of \$10 a semester. A student residing off campus and using a motor vehicle on campus will be charged a fee of \$5 a semester.

The Campus Police Department is in the Buildings and Grounds Department, at the south end of the college campus on First Street.

MEDICAL AND PHYSICAL CARE

Pomona College, in cooperation with the other Associated Colleges, engages the full-time services of two physicians. The medical advice of the college physicians is ordinarily available, free of charge, to all students, subject to certain conditions of hours and location of residence. Minor ailments are treated at the Baxter Medical Building or at the Infirmary, which is used for cases requiring nursing and certain types of hospital care. All surgical dressings and medicines are at the expense of the ill or injured as is also medical service in chronic or prolonged illness or in case of accident, or an acute illness beyond ordinary first-aid emergency treatment. The college nurse visits the residence halls each morning in order to see those students reported ill.

The student is entitled to two days each semester at the College infirmary without charge for room and meals. If illness requires hospitalization for additional days, the charge is \$7.50 per day.

The College does not assume responsibility for the complete medical care of all its students, but only insofar as its present facilities will afford. Preventive medicine and campus health functions are stressed in the college medical program.

The College has completed arrangements by which its students may purchase group health and accident insurance at special rates and it advises students to avail themselves of this opportunity. Detailed information about this insurance may be secured from the Dean of Students or from the college physicians.

Students are expected to conform to the medical regulations of the college.

PHYSICAL ATTENTION AND REQUIRED PHYSICAL EXAMINATIONS

The physical care of students is a matter of special concern to the college. The medical certificate required of all applicants prior to admission includes a certificate of recent successful small-pox vac-

cination and a certificate of satisfactory tuberculin test, or an x-ray of the chest, performed within the preceding six months. All returning students will receive a tuberculin test, unless they have previously reacted positively to a tuberculin test, in which case they will have an x-ray examination annually.

Required examinations after admission: Every student on entering college is given a physical examination under the direction of the College Physician. All new students entering in the fall semester are required to complete the examination during New Student Days or by November 1, and those entering in February are required to complete it by March 1. Failure to meet this requirement within the announced time limits will result in the temporary withdrawal of the student's privileges of registration and class attendance until the requirement is met.

ATHLETICS

Pomona College conducts a program of intercollegiate athletics as a member of the Southern California Intercollegiate Athletic Conference and the NCAA. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, water-polo, swimming, golf, and tennis. Varsity and Freshman teams are maintained in all sports except golf, which is represented by a Varsity team only.

A joint program of sports clubs is conducted with other members of the Associated Colleges in such activities as soccer, rugby, sailing, and skiing. Schedules are arranged for these club teams with other nearby clubs and colleges, but not exclusively within the Southern California Intercollegiate Athletic Conference.

In addition to the program of intercollegiate sports and the joint program of club teams, Pomona College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics. There is a faculty Committee on Athletics, and the Director is advised by the Athletic Council, which is composed of three members of the faculty, three members of the student body, and two members of the Alumni Council. Assisting the Director of Athletics is the Graduate Manager of Athletics, under whose direction student managers operate in each sport.

The college endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and to this

end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk.

ASSOCIATED COLLEGES COUNSELING CENTER

The Associated Colleges maintain a Psychological Counseling Center under the direction of a Clinical Psychologist. The Director of the Center works in conjunction with the college physicians and the college psychiatrist. The Center offers instruction in reading and in study techniques, vocational testing and consultation and counseling on personal and emotional problems. Most of the services are open to Pomona students without charge, including one consultation with the psychiatrist. The cost of any additional consultations with the psychiatrist must be met by the student, and a nominal fee may be charged for extensive counseling from the psychologist.

VOCATIONAL COUNSELING AND PLACEMENT

Through faculty advisers and the personnel services of the college, students receive assistance in their choice of a career. The college maintains a vocational placement service for the benefit of alumni and students. Many alumni cooperate with the Director of the Placement Service in assisting seniors and graduates to find employment and to provide reliable occupational information concerning representative business organizations, government agencies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are held on campus under the sponsorship of the academic departments and the faculty and student committees on vocational services.

A Vocational Information Center is maintained in the Honnold Library with information on vocations in this country and opportunities for placement abroad and for foreign study. Information on scholarships and fellowships for graduate study is made available to interested students by the Scholarship Committee, the Vocational Information Center at the Honnold Library and department offices.

STUDENT EXCHANGE PROGRAM WITH FISK UNIVERSITY

Under arrangements which are made each year, two or three Pomona students of junior standing are selected from interested appli-

cants to spend a semester at Fisk University, Nashville, Tennessee. The program operates on an exchange basis, and an equal number of Fisk students come to Pomona for a semester's experience. Interested Pomona students should make application to the Fisk Exchange Committee at a time which will be announced by the Chairman of the Committee.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered in several fields including art education, Asian studies, botany, economics, education, English and American literature, geology, government, history, music, music education, psychology, public affairs (business economics, government administration, international relations). The Master of Fine Arts degree is given on a two-year program in applied art combined with art history.

The Doctor of Philosophy degree may be taken in botany, economics, government, education, English and American literature, history, and psychology.

The Claremont Graduate School is authorized to recommend candidates to the California State Department of Education for the following public school teaching credentials: general elementary, general secondary, junior college and special secondary for art. Work also is offered leading to administrative credentials and to the pupil personnel services credential.

The annual bulletin may be obtained from the Admissions Secretary, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

Under a grant from the Fund for the Advancement of Education of the Ford Foundation, the Associated Colleges at Claremont are co-operating with Occidental College, the University of Redlands and Whittier College in the Intercollegiate Program of Graduate Studies designed to prepare college teachers of comparative literature, English and American literature, economics and government, and history. Those interested in this program should consult the Dean of the Claremont Graduate School.

GRADUATE RECORD EXAMINATION

Many graduate or professional schools require or request that applicants for admission, as well as for fellowships and scholarships, take the Graduate Record Examination administered by Educational Testing Services, the national academic testing organization. Students who wish to receive information concerning the dates on which the examination is given are advised to write early in their senior year directly to the Educational Testing Service, 4640 Hollywood Blvd., Los Angeles 27, Calif.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by Pomona College, Scripps College, Claremont Men's College, Harvey Mudd College, and the Claremont Graduate School. It is organized in two consecutive terms of six and five weeks, and offers a full program of undergraduate and graduate courses. A bulletin describing summer work is published annually in February and copies may be obtained from the Summer Session Office, Harper Hall, Claremont, California.

Professional Preparation

ALTHOUGH THE liberal arts program at Pomona aims at a broad and fundamental education rather than specialized vocational training, the regular work of the college prepares students for direct entry into many vocations, as well as for specialized work in graduate and professional schools.

National corporations each year employ thousands of college graduates and train them for executive positions. Though such seniors have often majored in economics, government, or science, many employers consider the field of study less important than character, maturity, and intellectual ability demonstrated by successful college work. Many women with a Pomona degree go directly into responsible positions in business and the professions.

Positions as industrial chemists, physicists, and geologists, as well as Federal and State Civil Service positions, are available to Pomona graduates without further study. Majors in mathematics are in demand by both business and industry. English majors may go into advertising, public relations, journalism, or publishing. Graduates in botany often find positions with the Forest Service or the National Park Service. In many counties of California, sociology majors can go directly into social work with the B.A. degree. Graduates who have concentrated in the social sciences are eligible to take competitive examinations for a variety of civil service positions, such as Junior Management Assistant, and other federal or state offices. Pomona graduates interested in careers in the Foreign Service are eligible to take the examinations given by the State Department, which is at present conducting a recruitment program.

More than half of Pomona's graduates go on to professional schools. Most departments of the college prepare students for advanced work in graduate school. Some of the opportunities for preparation for professional study are listed below.

AGRICULTURE, FORESTRY AND LANDSCAPE ARCHITECTURE

A strong program in the natural sciences is the best preparation for agriculture or forestry and, coupled with an equivalent program in art, for landscape architecture. Courses which prepare for ad-

vanced study in these fields are available at Pomona College. A complete list of recommended courses in all three may be obtained from the Department of Botany.

Ordinarily preparation in agriculture, forestry, or landscape architecture involves a full four-year course of background material together with a broad general education. This is followed by a year in a graduate or technical school bridging the gap between pure science or art and their application. Such a program prepares for leadership in the field, rather than a minor position involving only a special application of a segment of the subject. It is designed to develop adaptability to many situations rather than specific preparation for a few.

ARCHITECTURE

This program offers combined work from the areas of art and pre-engineering. It provides a balanced program in those disciplines which lead to further study in professional architecture and industrial design. Each student's program will be planned in accordance with the particular emphasis desired by the proposed professional training.

For details in upper division work leading to a concentration in art or pre-engineering the student should consult his major advisors for a list of courses.

BUSINESS

Recent evidence reveals that the tendency for business executives to come from the social sciences, particularly economics, is growing. Modern management needs to know much besides the particular facts and skills associated with an individual business. A thorough understanding of the economic system and business-government relations, along with the power to communicate accurately and convincingly, is more and more becoming a prerequisite to business success.

Students at Pomona College, planning a career in business, will find a rich offering of courses, including accounting, statistics, money and banking, labor economics, national income, economic theory and business policy, industrial organization and public policy, management accounting, public finance, comparative economic systems, economics of consumption, and international trade and finance. During the senior year, the student may take honors work

or supervised study under the direction of a staff member. The program is ideal for the student who plans to attend a graduate school of business, to pursue an advanced degree in economics, or to enter one of the special business training programs for college graduates.

ECONOMICS—ENGINEERING

This curriculum combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in modern engineering organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The lower division requirements are: Mathematics 1 and 65 (12 units), or Mathematics 50 (6 units); Economics 51, 52, 71 and 72 (14 units); and Physics 51 and 52 (8 units), or Chemistry 1 (8 units).

The concentration requirement may be satisfied by taking a minimum of 30 units of upper division work in the four cooperating departments by completing a minimum of six upper division units in Mathematics, Economics, and Chemistry or Physics, with a minimum of 12 units in at least one of these fields.

Each student's program will be planned in accordance with his background and interest. A faculty adviser will advise him which courses in each department can be counted toward the minimum requirements.

ENGINEERING

Students at Pomona College who plan to enter a professional engineering school have an opportunity to obtain an excellent foundation in mathematics and physical science in addition to a well-balanced liberal training. Such students should consult with members of the staff in physical science who are acquainted with engineering school requirements. The special program, described below, has been established, but Pomona graduates are prepared to enter other engineering schools as well.

COMBINED PLAN
CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona.

In satisfying the Lower Division Distribution Requirement of Pomona College, the humanities requirements of the institute should be carefully considered in consultation with the adviser. In addition, the following Lower Division courses should normally be completed.

Physics 51 and 52	Engineering Drawing 7ab
Mathematics 1 and 65, or 50	Engineering Drawing 40ab
	Chemistry 1 or 59

Satisfaction of the Pomona College concentration requirement in pre-engineering for those students who transfer at the end of the junior year shall include at least 24 Upper Division units selected from the following courses in consultation with the Faculty adviser. Starred courses shall normally be included.

Mathematics 151a*, 151b	Physics 141a*, 141b
Mathematics 125*, or 150*	Physics 142a*, 142b
Physics 110*	Physics 101
Physics 113a*, 113b	Physics 153

Students planning combined programs in specialized fields such as chemical engineering, architecture, food technology, and city planning will approximate the above requirements on a unit basis but with substitution of more suitable courses where deemed advisable after consultation with the Faculty adviser.

Those students concentrating in pre-engineering and who plan to graduate after four years at Pomona College shall complete 36 units

in Upper Division courses selected from the above list and from the additional list below:

Mathematics 118

Mathematics 119

Mathematics 102

Physics 191

Physics 192

Engineering Drawing (up to
4 units in courses numbered
over 100)

LAW

Adequate preparation for the study and practice of law requires the completion of an undergraduate program in the liberal arts leading to the baccalaureate degree. The best law schools do not require any particular undergraduate concentration; they are interested in breadth of background and quality of work. Lawyers and law schools agree that the ability to write and speak with clarity and precision is of paramount importance. A broad foundation in government, economics, and history is essential; accordingly if the student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields. A year of accounting is strongly recommended. Those interested may consult with a member of the Pre-law Committee.

PRE-MEDICAL

Admission to professional school is possible from any concentration, such as English, Philosophy, History, etc., as long as the basic science requirements are met. Pre-professional students are advised not to attempt to crowd the minimum requirements into three years of college, but to follow a program planned to give breadth of view and thorough grounding in the fundamentals of the biological and physico-chemical sciences. The Pre-Medical concentration listed below meets the minimum requirements for entrance to medical and dental colleges as designated by the Council on Medical Education of the American Medical Association and by the Council on Dental Education of the American Dental Association. Many of the leading colleges in these fields, however, have requirements well beyond this minimum, and are selecting only those candidates who are best prepared and have demonstrated high scholastic ability and laudable personal traits.

Many medical and dental colleges require a reading knowledge of French, German or Spanish, with a preference for German.

Students planning to study medicine should anticipate this requirement by taking some language in high school followed by at least one year in college. Students will find it advantageous to take trigonometry in high school. In addition, students should consult with their adviser to determine the specific admission requirements of several medical and dental schools to which they wish to apply and to learn the proper time to take the Medical College Admission Test or the Dental Aptitude Test. These tests are required for entrance into most medical and dental colleges.

REQUIREMENTS FOR PRE-MEDICAL CONCENTRATION

Lower Division Courses: Zoology 1; Chemistry 1, 59; Mathematics 1 or equivalent; Physics 51, 52.

Upper Division Courses: 24 units minimum; Chemistry 106, 110a, 111a; plus 17 upper division units selected from one or more of the science departments.

For preparation for optometry, physical therapy and other allied medical arts, consult with the Chairman of the Pre-Medical Committee.

PSYCHOLOGY

Recent surveys indicate an acute shortage of well-trained professional psychologists in clinical, counseling, educational and industrial areas. There is also a growing demand for experimental psychologists to fulfill important research functions in the Armed Services, U. S. Public Health Service, and various local agencies. Social psychologists and experimental psychologists are needed for research in advertising and industrial settings. Women in particular are sought for careers in nursery school and child development.

An undergraduate concentration in psychology at Pomona provides a broad general background which is not only necessary for graduate training in psychology, but also is appropriate to later work in elementary education, social work, psychiatric nursing, and understanding human behavior in social, industrial, and home situations.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

All states require the public school teacher to have a credential granted by the state department of education. The teaching creden-

tial is also the usual basic requirement for certification as a school administrator. California requires students who wish a *secondary* credential to complete a bachelor's degree and one year of graduate work. This program must include a teaching major of 36 units and a teaching minor of 20 units in fields commonly taught in the high schools of the state. The two fields must be selected from the following: social studies, life sciences, physical sciences, English, speech, language arts, foreign language, mathematics, health education, agriculture, art, business education, home-making, industrial arts, librarianship, music, physical education, and conservation education. Students majoring in areas not listed must present two teaching minors from among the listed fields. Most prospective secondary school teachers will concentrate at Pomona College in the area or areas they expect to teach.

The minimum state requirement for the *elementary* or the *kindergarten-primary* credential is a four-year baccalaureate course, including certain specified work in professional education, but no specific subject major or minor is required. However, several California colleges and universities, of which Pomona College is one, believe that the soundest, most effective preparation for elementary school teaching involves definite concentration in fields allied to the elementary school program (e.g. English, history, music, art, physical education, child psychology). Also, in line with widespread policy in other California institutions, Pomona College feels that a graduate program of professional study is as desirable for elementary as for secondary teachers. The college therefore assumes that prospective elementary school teachers will elect to major in a department appropriate to the elementary school curriculum and will plan to complete their professional study in graduate school.

The courses in Education at Pomona College (see page 106) are offered as integral parts of a liberal collegiate curriculum and as means of satisfying certain of the requirements for certification in California and elsewhere. The college believes that preparation for teaching is enhanced when the academic subjects and the educational process are studied together, thus it strongly recommends that some work in Education and Psychology accompany undergraduate concentrations in the teaching fields.

The post-graduate study for elementary and secondary credentials may be taken at the Claremont Graduate School or at any other college accredited by the state for teacher education. Each graduate

school prescribes its own program for fulfilling credential requirements and these programs vary greatly. Students planning to secure teaching credentials are advised to consult with the Education Department of the Graduate School early in their college careers to avoid unnecessary delays in completing these requirements.

THE JOINT PROGRAM OF POMONA COLLEGE
AND THE CLAREMONT GRADUATE SCHOOL
FOR TEACHING CREDENTIALS
AND THE MASTER OF ARTS DEGREE

For students qualifying for the Elementary or Secondary Teaching Internship Programs at Claremont Graduate School, certification to teach in the public schools of California may be accomplished as follows:

Elementary Internship Program. (1) Introduction to Public School Teaching, in the second semester of the senior year; (2) a summer period of study (7 weeks) at Claremont Graduate School; (3) a year's classroom teaching as an intern, with full salary, under joint supervision of Claremont Graduate School and a cooperating school district; (4) a second and concluding summer study period (6 weeks) at Claremont Graduate School. Each intern who successfully completes the program achieves the California General Elementary Credential and 18 units of graduate credit may be applied toward the Master of Arts degree in Education.

Secondary Internship Program. (1) Introduction to Public School Teaching, in the second semester of the senior year; (2) a summer period of study (8 weeks) in professional education and apprentice teaching; (3) one semester's classroom teaching as an intern, with full salary, under joint supervision of Claremont Graduate School and a cooperating school district; (4) one semester in residence at Claremont Graduate School with opportunity to work toward the Master of Arts degree in a subject field or in Education. Each intern who successfully completes the program achieves the California General Secondary Credential, earns at least one-half of the minimum number of units required for the M.A. degree, and satisfies the residence requirement for that degree.

Students planning careers in teaching are advised to take courses in the following areas as undergraduates: Contemporary Problems of Education, Introduction to Public School Teaching, Educational Psychology, and either Child or Adolescent Psychology.

SOCIAL WORK

The field of social work covers a vast number of positions in agencies designed to meet human needs. The best training for a career in social work includes an undergraduate degree from a liberal arts college, preferably with a concentration in the social sciences, and a two-year program of graduate work in a professional school of social work. Some positions in public assistance and in group work are open to holders of the B.A. degree; others require one or two years of graduate training. Students interested in social work careers are urged to consult the Chairman of the Department of Sociology and Anthropology, who is qualified to advise on course offerings in the College, graduate school requirements, and specific job qualifications.

The Curriculum

THE PURPOSE OF Pomona College is to prepare students for a society which expects of them leadership in diverse roles and offices, humble or great. The college endeavors to help its students toward a life in which professional achievement is accompanied by personal happiness, cultural balance, and social responsibility. Its program, therefore, includes courses intended for general education as well as courses designed for specialized study and preprofessional training.

The immediate objective of general education, as expressed in the course requirements of the College, is to help the student develop:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Knowledge of literature and the fine arts.
7. Awareness of ethical and spiritual values.

With these purposes in mind, the College expects that certain courses be taken in the Freshman and Sophomore years.

To secure the benefits of intellectual discipline derived from concentrated study, and at the same time, in many instances, to prepare for professional training after graduation, every student is required by the end of the sophomore year to select a field of concentration in which he will complete not less than twenty-four units of upper-division work during his Junior and Senior years. The field of concentration may be represented by one department or may extend beyond departmental limits to include closely related subjects. For students of outstanding ability and well-defined interests, the field of concentration may be developed into a program of honors study. These requirements and programs of study are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers who assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Registrar's Office or Dean of Students.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude*, *magna cum laude*, and *summa cum laude*, are awarded on the basis of the over-all average of the student's work, and of the comprehensive examination.

Units: 126 units (semester hours) of work are required for graduation except for those students who, because of physical handicap or transfer from an institution not having the requirement, are excused from all or part of the required Physical Education. In such instances, and only by vote of the Classification Committee, students may graduate with as few as 120 units. (See Physical Education Activities.)

A "unit" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in eight semesters one must take each semester an average of fifteen units of work exclusive of physical education activities.

Grade Points: In order to graduate, a student must not only earn a certain number of units, but also attain an average of at least C grade in all units for which he has registered in the Associated Colleges. An explanation of the grading system will be found on page 82.

Residence: A minimum of four semesters in full-time attendance is required for graduation. For transfer students entering with junior standing, this means the four remaining semesters. For all students, except those engaged in the C.I.T. program, both semesters of the senior year must be taken in full-time attendance.

Distribution Requirements: All students must satisfy the requirements for distribution as explained on page 86. These requirements should be met in the Freshman and Sophomore years, but their completion may be postponed to the Junior year. Postponement to the Senior year requires the permission of the Classification Committee.

Upper Division Requirements: In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 87.)

Physical Education Activities: Physical Education Activities must be included in the registration of each student every semester, in accordance with the student's classification, until a maximum of six units has been completed. Freshmen and Sophomores register for two activities each semester, and Juniors and Seniors one activity. Exemption from this requirement is possible only by permission of the Classification Committee on the recommendation of the College Physician and the Department of Physical Education. Transfer students who met the Physical Education requirement of the institution from which they transferred need take only the amount required for their classification. No more than six units of Physical Education Activities and their corresponding grade point value may be applied toward graduation requirements.

American History and Institutions: To be eligible for graduation all students are required by the laws of the State of California to pass examinations in American history and in American and California institutions, including the provisions and principles of the United States Constitution and the principles of California state and local government as established under the Constitution of this State. While courses are helpful in preparing for the examinations, it is not possible to satisfy the requirements by the passing of any Pomona College course or courses. Examinations to satisfy these requirements will be given semi-annually in September and in the spring on dates which will be announced well in advance. Each candidate will be examined once without fee, but if he fails to pass the first time, re-examination will be given only upon presentation of a receipt from the Business Office for the payment of the usual \$2.00 fee for special examinations. Candidates who have failed once, however, must take re-examinations at the time scheduled for the regular examinations. These examinations will be objective in character.

Any student who has not satisfied these requirements before the beginning of the second semester of his senior year will not be considered a candidate for graduation and will not be eligible to take the comprehensive examination for that semester. Reading lists for those preparing for the examinations are obtainable from the departments of History and Government. Members of those departments will offer a series of public lectures each spring which will be mature interpretations of the subject, but which will not in themselves provide all the factual information necessary to pass the examinations. Students failing an examination are advised to take a course in that field before attempting it again.

Foreign Languages: Although the College does not specify a knowledge of foreign languages as a requirement for the degree, all students are urged to take at least one year of foreign language study. Since several departments require a foreign language in their programs of concentration, the student should ascertain the language requirement of the program he is planning to undertake, and if he is not already prepared to meet it, should include the study of the required language in his Freshman and Sophomore years.

Graduation Fee: Every student expecting to graduate at the end of any given semester must file an application for graduation at the Registrar's Office not later than the beginning of his final semester and must include the graduation fee (\$10.00) with the payment of his other fees at the time of such

registration. Failure to comply with these two requirements will automatically exclude a student from graduation that semester.

Requests for consideration as candidates for the Pomona College degree from former students who for any reason discontinued attendance before completing all requirements for graduation will not be considered unless submitted within seven years from the time the student normally would have been graduated.

ACADEMIC REGULATIONS AND PROCEDURE

GRADES AND GRADE POINTS: Each Candidate for graduation must earn an average of at least C (i.e., twice as many grade points as units) in courses for which he has registered in the Associated Colleges.

A (excellent)	= 4 grade points per unit.
B (very good)	= 3 grade points per unit.
C (average)	= 2 grade points per unit.
D (passing)	= 1 grade point per unit.
F (failure)	= 0 grade points per unit. May not be made up except by repeating course.
I (incomplete due to illness)	
W (withdrawn with permission)	

All F, and I grades reported by instructors must be accompanied by a specific statement in writing of the reason for the grade. In case of an I grade, the statement must include a detailed explanation of how the grade can be made up. A copy of this statement is given to the student. All conditions for removing I grades must be met within seven weeks of the beginning of classes of the following semester, except that, in certain year courses, the deficiency in the first semester may be removed by successful completion of the work of the second semester, if the instructor so recommends. I grades not satisfactorily made up within this time limit automatically become F.

The I mark is given where illness on the part of a student justifies the granting of additional time for the completion of work. It may be changed to whatever grade the student earns. Instructors wishing to give an I grade for a justifiable cause other than illness must first receive permission to do so from the Classification Committee.

An F grade can be made up only by repeating the course. Where the F grade is incurred in a Physical Education activity, the same course must be repeated when next offered. A student may not continue in a year course other than Physical Education in which he has received an F the first semester. The making up of work which has received the F grade does not expunge the grade from the record. Although credit and grade points are allowed for the repeated work all units attempted and grade points earned are counted in computing the student's average.

The mark W is used where a student has withdrawn from a course in accordance with the provisions outlined under Changes in Registration.

Amount of work: The College regulates the amount of work a student is allowed to carry. The normal registration is 15-16 units of academic work for each of eight semesters plus Physical Education activities and/or Military Drill. In addition a student may elect for credit each semester not more than two of the following: Band, Choir, English 61, Orchestra, or Play Production. The minimum full-time load is 12 units of academic work. Registrations above 16 academic units require a recommendation from the student's adviser and the further approval of the Registrar. Registration below 12 units places the student in Special Standing. A student admitted to the college as a special student may be given regular standing only by action of the Admissions Committee. A regular student who drops to special standing may be readmitted to regular standing only by action of the Classification Committee. Special students are not considered to be candidates for a degree.

Auditing of Courses: Students regularly enrolled in the Associated Colleges may, with the consent of the instructor, audit courses. Such arrangements will not be officially recorded and will not receive credit. An auditor may not participate actively in course work and may not, therefore, request registration for credit after the normal deadline for requesting course registration. Persons not regularly enrolled in the Colleges may audit courses provided they obtain the instructor's permission and pay the regular auditor's fee of \$10 per course.

Quality of work: A student is expected to secure each semester twice as many grade points as the total number of units of registration.

By the middle of each semester instructors are requested to report all students doing unsatisfactory work for the period preceding the date of the report. In addition to these general reports, instructors are encouraged to make reports at any time concerning individual students who are not in good scholastic standing. Advisers and deans receive such reports and take such steps as are advisable in each individual case.

At the end of each semester a complete report is made on every student. This report becomes a part of the student's record and indicates his standing in the courses for which he has been registered.

The college may at any time require the withdrawal of a student if the quality of his work seems to warrant such action. Decision in every such case is reached by the joint action of the Student Affairs and Classification Committees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the course, all papers, reports, drawings, and other assigned exercises must be turned in to instructors before the final examination.

Academic Record: All collegiate work for which a student registers constitutes a part of the academic record, whether or not the work is completed. Students failing to provide the Registrar's Office with transcripts of registrations in other institutions may be subject to dismissal from the College.

Reading Period: A reading period of three weeks is provided at the end of each semester for certain upper division courses. Participation is at the option of the instructor. An instructor who desires to have a class participate in the program should announce that fact to the class at the beginning of the semester. In such classes all regular course assignments, term papers, etc., are due prior

to the beginning of the reading period, unless specifically assigned to be done during that time.

Dismissal from Courses: A student who proves unable or unwilling to carry a course satisfactorily may be dropped from it by the Classification Committee upon the recommendation of the instructor.

Class Attendance: Students are expected to maintain regular attendance at all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right to establish such specific regulations regarding attendance as may seem best suited to his particular department.

Final Examinations: Seniors may not take final examinations in courses in the semester in which they take their comprehensive examinations. Final examinations are required of all other students in all subjects save as exceptions are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Study Committee. Instructors may not change dates of examinations without the consent of this Committee. Examinations for individual students may not be given at other than scheduled times except by consent of the Classification Committee and on the presentation to the instructor of a Business Office receipt for a fee of two dollars (\$2.00), unless this fee is remitted by the Committee. Special examinations are rarely scheduled, except in cases of serious emergencies, such as illness.

Field Trips: Field trips are looked upon by the faculty as a legitimate part of certain courses. Permission for such trips is secured by instructors from the Courses of Study Committee at the opening of each semester. Instructors certify to the Committee the names of students participating in these trips.

Pre-Registration and Registration: On appointed days shortly after the publication of the catalog in the spring and before Christmas vacation in December all students must pre-register by filling out schedules listing their choice of subjects for the following semester. The fee for any change in this pre-registration is three dollars.

New students pre-register and register on announced days at the opening of each semester.

Registration is completed for all students by the payment of tuition on appointed days at the beginning of each semester.

The fee for late pre-registration or late registration is \$2.00 for the first or second day following the appointed days, and \$1.00 additional for every day thereafter to a maximum of \$10.00.

Students are not allowed credit for courses for which they are not formally registered.

Students may not enter courses later than two weeks from the beginning of class work.

Changes in Registration: Upon application to the Registrar's Office and with the approval of his advisers, a student wishing to modify his schedule of studies by addition or substitution of courses may do so within two weeks of the beginning of class work. All students except those registering for the first time

are required to pay a change fee of three dollars. No change of registration is official unless the student has complied with the procedure established by the Registrar's Office.

Students withdrawing from laboratory fee courses within three weeks of the beginning of classes will be refunded the full fee. One-half the full fee will be refunded to those withdrawing in the following five-week period but after eight weeks from the beginning of classes no laboratory fees will be refunded.

The last date for withdrawing from a course without penalty is one week after the date of the mid-semester low grade report. Thereafter, the dropping of a course by a student shall entail for him a grade of F for the course, except as circumstances may, in the judgment of the instructor and the Classification Committee, warrant a grade of W.

Matriculation: Matriculation implies the proven ability to carry college work. To this end the standing of all students is provisional until after they have been in full-time attendance for one semester. At that time those new students are matriculated who have shown themselves in accord with the spirit of the College, have carried a minimum of 12 academic units, and have made at least an overall average of C in all work attempted during their term of residence. For those matriculating at the end of their first semester a public matriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may be matriculated at the end of any subsequent semester in which they have carried a minimum of 12 academic units provided they have met all the above requirements including an overall average of C on all work attempted during their whole period of attendance.

Students are not candidates for a degree until they have matriculated.

The Faculty Regulation on English:

For many years Pomona College has had a regulation which provides that faculty members report to the Faculty Committee on English all students whose use of English is unsatisfactory. Habitual and flagrant misspelling is considered a deficiency in English. On the recommendation of this Committee a student whose English is persistently unacceptable may be required to withdraw from the College.

The faculty has adopted the following procedures: (1) Any student reported to the committee during one semester must demonstrate to the satisfaction of the committee his ability to write adequate English before the end of his next semester in residence, or he will be required to withdraw until he has satisfied the requirement of the committee. A student who has been reported before the beginning of the second semester of his senior year will not be granted his degree until he has demonstrated his proficiency in English to the Committee. (2) A student who enters with advanced standing must take an examination in English upon entrance. If he fails this examination and does not meet the requirement of the committee by the end of his first year in residence, he will be required to withdraw until he has fulfilled it. (3) A student who receives a grade of C — or lower in English 1A must take an examination in English at the end of the first semester of his sophomore year. If he fails this examination and does not meet the requirement of the committee by the end of his sophomore year, he will be required to withdraw until he has fulfilled it. (4) Ordi-

narily, a student who has come under the jurisdiction of the English Committee may demonstrate his proficiency in English by passing one of the examinations which the committee will administer. There will be at least three such examinations each semester, including one before the opening of classes and one on the final day of classes. No special examination will be given.

REQUIREMENTS FOR DISTRIBUTION

All students must satisfy, by the end of the Junior year, the following requirements for distribution. Distribution requirements shall be met only by the Pomona College courses listed below unless exception is granted by the Classification Committee. Students from other institutions who plan to transfer to advanced standing in Pomona College are advised to scrutinize their programs carefully to be sure they have taken the required work and to consult the Registrar concerning any questions as to the acceptance of credit.

1. *English 1a, 1b.* An Introductory Course. A few students who make exceptionally high scores on the College Board Examination and also on an exercise in composition set by the Department of English are exempted from *English 1a and are enrolled in English 1b in the First Semester*. If they wish, such students may take the *year* course, which is a study of composition and literature on the college level. Remedial work in English below the college level is under the supervision of a special faculty committee.

2. *A year course in a biological science:* Biology 1, Botany 12 (or Biology 1a) and 15; Zoology 1 or 11.

3. *A year course in a physical science:* Astronomy 1 or 61; Chemistry 1, or 2, or 51, Geology 1 or 51 and 52; Physics 1; Physics 51.

Note: A student may satisfy the requirement in either Group 2 or Group 3, but not in both, by offering for admission a recommended unit of high school work in one of the sciences listed in the Group from which he wishes to be excused.

4 and 5. *Two year-courses in the social sciences:* History 1a-1b; Economics 51 and 52; Government 51 and 52; Sociology, any 2 of the following: Sociology 51, 52 or Anthropology 53; Economics 51 and Government 52. Normally History 1a-1b is taken as one of the two courses.

Note: Sociology 51 and 52 constitute the integrated year course in sociology, but 51 or Anthropology 53 and any *two* upper division courses in the Department also meet the requirement. These need not all be taken in the same year.

6. *A year course in literature, art or music:* This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a year course in art or music. Acceptable courses are:

- a. English 50 or six units from English 50a, 56, 57, and 58. Optional for Juniors and Seniors: English 105, 160.
- b. In the classics and in modern European languages, any course, in the original or translation, numbered above 50, except courses in composition and conversation.

c. Any year course of not less than four units in art or music.

7. *A year course in philosophy or religion*: Either Philosophy 50 and one course from Philosophy 51, 52, 53, 120, 122, 124; or two courses from the Philosophy 110-114 series; Religion 1, 2, 65.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a major field of concentration during the Freshman year and a definite choice by the end of the Sophomore year. During their first two years students will be expected to complete the basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a final written comprehensive examination over the entire field in which he has concentrated. The student must pass this examination in order to qualify for graduation. In a few departments research projects take the place of the written examination.

No student is permitted to take both the Comprehensive Examination and final examinations in courses the same semester.

The Comprehensive Examinations must be taken at the officially scheduled times. Students who have failed Comprehensive Examinations may request permission to retake them at the opening of the college year and at the end of each semester. Such applications must be in the hands of the department concerned by September 1, December 1, or April 1. A fee of \$10 will be charged for a re-examination which is taken at other than the times set for a regular comprehensive examination. All students who intend to take the regularly scheduled comprehensive examinations must file an application with the Registrar not later than the beginning of the semester in which the examination is to be taken.

In the event that an undergraduate does not take all or part of his Comprehensive Examination due to illness, he will receive an "I" for the part or parts of the examination not taken. It is the responsibility of the undergraduate who does not take a Comprehensive Examination due to illness to inform the department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination must include not less than twenty-four hours and not more than thirty-six hours of work in courses numbered over 100 in the chosen field. These limits apply to that part of the student's program on which the comprehensive examination will be set.

For the entire four years of college, not more than a total of fifty-two units in any one department (in Music not more than a total of sixty units) may be counted toward graduation.

A few concentrations have been arranged so as to permit a combination of courses in various departments. The requirements for concentration in any department will be found before the list of courses offered by the department.

HONORS STUDY

Honors study consists of a carefully planned program of tutorial work together with related seminars and courses carried out under the direction of a faculty member. Pomona College has offered this type of instruction since 1924 for the student who shows the capacity and inclination for more than average intellectual achievement and self-direction in his study. An Honors program permits freedom from a considerable part of academic routine during the Junior and Senior years and thus makes it possible for an individual to gain a wider and more profound knowledge of a chosen field and its ramifications than the usual curriculum permits.

Conduct of Honors Programs: General administration of Honors work is vested in the Honors Committee which reviews individual programs and administers the faculty regulations regarding them.

Ordinarily a student enters Honors study at the beginning of his Junior year, and in no case may he be admitted after the beginning of his Senior year. A minimum grade-point average of 3.0 is normally required for enrollment in Honors study. In addition, the recommendation of the department in which the student will work is necessary.

The number of hours allotted to Honors study must be not less than 12 nor more than 18. Within these limits a student may be excused from formal classes. The method of Honors study varies; it may be carried on by tutorial conferences or in seminar or laboratory projects. The general requirement which limits to a total of 52 units the work which may be taken in any one department applies also to Honors programs.

Application forms for admission to Honors study may be obtained at the Registrar's Office. They should be filled out in close consultation with the faculty member with whom the program is to be carried on.

Evidence of the success of the student in his Honors work is measured by the quality of the thesis or project with which such a study normally culminates and by written and oral examinations. All or part of the Senior comprehensive examination in a field of study usually forms the written Honors examination in that field. The oral examination will pursue further topics considered in the written examination as well as subjects related to the thesis or project carried out by the student.

A student's performance in his Honors study and examinations is judged by his department, the board which conducts his oral examination, and is reviewed by the Honors Committee. A student who has maintained in all his work a grade-point average of 3.0 and who has met successfully all the requirements of his program of Honors study will be graduated with a notation of that accomplishment on his diploma. He will also be eligible for such general commencement honors as may be indicated by his whole record.

A student who fails to meet the standard of his Honors program as a whole, but who completes work worthy of credit in the hours allocated to Honors, will receive credit and grades for the latter but will not receive notation of an Honors program completed upon his graduation.

Courses of Instruction

ELEMENTARY COURSES numbered below 50 are designed primarily for the freshman year. Courses numbered 50 to 99 are either those which follow the lower course or are the more advanced beginning courses. Courses numbered over 100 are for juniors and seniors and may not be entered by students without previous work in the same field, except by written permission of instructors. Courses numbered NC carry no academic credit. In some departments a definite sequence of courses must be followed.

The hyphen in a course number designates that credit will not be allowed for only one semester of the year course. When course numbers are connected by a comma, credit is given for a single semester, but unless a passing grade has been received for the first semester of the course entrance to the second semester is by permission of the instructor.

Any course may be withdrawn if the enrollment is less than five.

Except by special permission, credit for only one unit of work in a department is not allowed.

COURSES IN THE ASSOCIATED COLLEGES

Following the departmental offerings of Pomona College are listed certain courses in the associated undergraduate colleges which are open to Pomona sophomores, juniors, and seniors under approved conditions. Normally only those courses so listed are open to Pomona College students. It should be noted that most of the Scripps College courses are year courses and consequently credit cannot be allowed for only one semester. To enroll in courses other than those listed, students must first obtain a permission slip from the chairman of the corresponding department at Pomona. Each regular student in residence in Pomona College shall, however, select not less than half of his registration each academic year from courses in Pomona College. Normally freshmen will take their entire programs of study in the college of their residence. In a few departments involving the use of physical equipment and laboratory space, such as art and the sciences, it is necessary to impose limits on the exchange privileges.

Certain courses in the Claremont Graduate School are also open to Pomona seniors who are concentrating in the fields in which the courses are offered. Short titles for these courses are given following departmental offerings. For fuller description consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the senior is concentrating and from the instructor giving the course.

Where a course in one of the other colleges duplicates the material of a Pomona course, credit will not be given for both.

DIVISIONS

The courses in the Pomona College curriculum are arranged in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Romance Languages, Russian, Speech and Dramatics.

DIVISION II [*Natural Sciences*] Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Government, History, Oriental Affairs, Physical Education, Religion, Sociology and Anthropology.

DIVISIONAL COURSES FOR SENIORS

Under a grant made to the college by the Carnegie Corporation of New York, three divisional courses are offered annually, one in the Humanities, one in the Social Sciences, and one in the Natural Sciences. These courses aim to help students gain a perspective on their field of concentration, by encouraging them both to explore some of the interrelations between their own subject and other related fields and to examine some of the contextual problems, methodological, cultural, and philosophic, which the various specialized disciplines may overlook. The staff and specific topics studied will vary from year to year. Admission will be limited to seniors majoring in one of the departments of the relevant division, except that (depending on the topics being studied) some departments not formally within a given division may be regarded as providing adequate background preparation. Where interpretation is required, the chairman of each course should be consulted.

HUMANITIES

IIIA, IIIB. MYTHOLOGY. *Mr. Carroll, Mr. Sontag, Mr. Weismiller.* The course will be concerned with the structure of myth, the nature of mythopoeia and

the function of myth in art, literature and the fine arts. Classical mythology will be studied in reasonable detail, particularly through the art and literature of Greece and Rome. Attention will be paid to myth as a vehicle of thought, the relationship of myth to philosophy, recent anthropological and philosophic interpretations of myth, and myth in modern literature. Assigned readings will include classical and modern literature and philosophy, and modern critical works relating to mythology. 3 units. *TTh*, 1:15-2:30.

NATURAL SCIENCES

III. METHODS OF THE NATURAL SCIENCES. *Mr. Beckner, Mr. Miller, Mr. Ryerson*. An examination of recent researches in the natural sciences, including physics, chemistry, biology, and psychology, with intent to reach a more thorough understanding of the nature and content of scientific theory. The materials studied will be chosen on the basis of their contemporary interest and the degree to which they exhibit problems of methodology. Prerequisites: senior standing with concentration in the natural sciences, or permission of the staff. Offered each semester. May be repeated for credit. 3 units. Arranged.

SOCIAL SCIENCES

IIIIa, IIIB. AMERICAN CIVILIZATION IN CRISIS. *Mr. Fiske, Mr. Kemble, Mr. Perry*. A study of significant aspects of life in the United States in three periods when prosperity and optimism gave way to economic depression and social readjustment (1830-1840, 1890-1900, 1918-1941). There will be prime attention to the relation of the history of each era to developments in political, economic, and social thought and action as well as to expression in literature and the fine arts. 3 units. *MWF*, 8.

Anthropology

See Department of Sociology and Anthropology.

Art

Three types of concentration are open to students of art within the department: the History of Art and the Practice of Art and Pre-Architecture training. Specialization may be determined in the second year, but correlation between the history and practice of art is maintained.

Art 1 is normally a prerequisite for all advanced courses in the Department.

Not more than 16 hours of applied art courses numbered under 100 are accepted toward graduation.

A reading knowledge of French or German is strongly recommended. In many graduate schools candidates for the degree of Master of Arts are required to have a reading knowledge of *two* foreign languages.

CONCENTRATION: HISTORY OF ART

Lower Division Requirements: History 1, Art 1, 9, or History 1, Art 3, 9, 51.

Upper Division Requirements: 30 units of upper division courses, including 18 units of art history and Art 195a and b.

CONCENTRATION: PRACTICE OF ART

Lower Division Requirements: History 1, Art 1, 9 and 61 or 65 (or Art 3, 9, 51, and 61 or 65).

Upper Division Requirements: 30 units of upper division art courses. In the practice of art, 16 units including Art 120, Art 125 and 4 units of Art 185 or 10 units of Art 162. In the history of art 12 units.

CONCENTRATION: PRE-ARCHITECTURE

Lower Division Requirements: Art 1, Art 52, Art 61, Mathematics 1 and 65 or Mathematics 50; Physics 51, Physics 52; Engineering Drawing 7, 40. *Recommended, Art 9.*

Upper Division Requirements: 24 units, 18 of which are to be selected from the Department of Art and 6 from courses offered by the Departments of Mathematics and Physics.

1a, 1b. INTRODUCTION TO THE VISUAL ARTS. *Mrs. Fulton, Mr. Ruben.* The elements of art and their formal organization in theory and practice. Introduction to the technique, the history and the criticism of art. No previous training in art is expected for this course. 4 units. 3 sections. Lecture *MW, 9, 11.* Studio *MW, 10-12, 1:15-3:05.*

HISTORY OF ART

51a-51b. SURVEY OF THE HISTORY OF WESTERN ART. *Mr. Hill, Mr. Selz.* First semester: from the prehistoric period through the Gothic era; second semester: from the Renaissance to the contemporary scene. 3 units. *MWF, 10.* (Credit will not be given for both Art 1 and Art 51.)

52a, 52b. HISTORY OF ARCHITECTURE. *Mr. Hill.* First semester: Architecture and the related visual arts in antiquity and the Middle Ages. Second semester: Architecture and the related visual arts from the Renaissance to the present. 3 units. *MWF, 10.* (Omitted in 1958-59.)

101a, 101b. ANCIENT ART AND ARCHAEOLOGY. *Mr. Carroll.* First semester: the art of Egypt, the Near East, Crete and Greece through the 5th century. Second semester: Hellenistic Greece and the Roman Empire. 3 units. *TThS, 10.* (Omitted in 1958-59.)

106. EARLY MEDIEVAL ART. *Mr. Hill.* A developmental history of Early Christian, Byzantine and Migration arts, Carolingian, Ottonian, and proto-Romanesque architecture, sculpture and painting. 3 units. (Omitted in 1958-59.)

107. ROMANESQUE AND GOTHIC ART. *Mr. Hill.* Architecture, sculpture and painting in France, Italy, Germany, Spain and England from the 12th to the 14th century. Second semester. 3 units. (Omitted in 1958-59.)

111. THE ITALIAN RENAISSANCE. *Mrs. Fulton.* Painting and sculpture in Florence and Siena from Giotto to Michelangelo. 3 units. First semester. *TTh, 1:15-2:30.*

112. MANNERISM AND BAROQUE IN SOUTHERN EUROPE. *Mrs. Fulton*. The art of Italy and Spain from Titian to Velasquez. 3 units. Second semester. *TTh*, 1:15-2:30.

113. NORTHERN RENAISSANCE. *Mrs. Fulton*. Emphasis on the painting of the Netherlands and Germany from Van Eyck to Dürer. 3 units. First semester. *TTh*, 1:15-2:30. (Omitted in 1958-59.)

114. NORTHERN BAROQUE. *Mrs. Fulton*. Emphasis on painting in Flanders and Holland from Breughel to Rembrandt. 3 units. Second semester. *TTh*, 1:15-2:30. (Omitted in 1958-59.)

117a, 117b. ASIAN ART. *Mr. Davidson*. Painting, sculpture, architecture and minor arts of India, China, Japan and surrounding areas in relation to the religious, philosophical and other cultural conditions which affected their production. Special emphasis on the relationships between the arts and Buddhist and Hindu beliefs. First semester: Early China and India. Second semester: Later China and Japan. 3 units. *MWF*, 11.

131. AMERICAN ART. *Mr. Selz*. The art of the United States and Mexico from the Colonial period to the present. 3 units. First semester. *MWF*, 10.

135a, 135b. MODERN ART. *Mr. Selz*. First semester: from the French Revolution through Impressionism. Second semester: from Impressionism to the present. 3 units. *TThS*, 9.

190a, 190b. PROBLEMS IN THE HISTORY OF ART. *Mrs. Fulton*. The study of a particular artist, period, school or movement in art or art theory. Offered primarily for majors. 3 units. Arranged.

195a, 195b. DIRECTED READING. *Staff*. Seniors concentrating in art may enroll for individually planned reading programs, usually supplementary to advanced courses. Permission of the departmental chairman required. 3 units each semester. Arranged.

PRE-COLUMBIAN ART IN THE AMERICAS. See Sociology and Anthropology 130. This course includes the material formerly presented in Art 121a. (Pre-Columbian.) *MWF*, 8.

PRACTICE OF ART

3a-3b. DESIGN. *Mr. Hammersley*. A basic course investigating the fundamentals of design as applied to painting and drawing. 2 units. *TTh*, 3:15-5:05. (Credit will not be given for both Art 1 and Art 3.)

9a-9b. BEGINNING SCULPTURE. *Mr. Zajac*. A basic course in sculpture, comprising a study of the nature of form. Consideration of sculptural techniques and materials. 2 units. 2 sections. *TTh*, 1:15-3:05.

61a, 61b. DRAWING. *Mr. Hammersley*. An introductory course investigating various drawing problems and methods as applied to the human figure, still life and landscape. Completion of 1a-b or 3a-b or permission of the instructor is required. 2 units. *TTh*, 9-11.

65a, 65b. INTERMEDIATE SCULPTURE. *Mr. Zajac*. Continuing study of the nature of form. 2 units. *MW*, 10-12.

105a, 105b. ADVANCED DRAWING. *Mr. Hammersley*. 2 units. (Omitted in 1958-59.)

120a, 120b. PAINTING. *Mr. Hammersley*. A course investigating various painting problems and methods as applied to still life, the human figure and landscape. The painting course is essentially a continuation of the drawing class, with the addition of an emphasis on the use of paint. 2 units. *TTh*, 1:15-3:05.

125a, 125b. ADVANCED PAINTING. *Mr. Ruben*. 2 units. *MW*, 3-5.

162a, 162b. ADVANCED SCULPTURE. *Mr. Zajac*. A course open only to advanced students of ability for the development of original problems in various media. May be repeated for credit. 1 to 3 units. *MW*, 10-12.

185a, 185b. PROBLEMS IN PAINTING AND THE GRAPHIC ARTS. *Mr. Ruben* or *Mr. Hammersley*. Opportunity is given for the pursuit of individual projects to suit the interest and ability of the student. May be taken under both instructors concurrently, and can be repeated for credit. 1 to 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-121. PAINTING. *Mr. Dike*, *Mr. Kuntz*. Prerequisite II-2 or equivalent. One or two year course. Two sections. *MWF*, 1:15-4:05, *TTh*, 1:15-4:05. 3 hours arranged.

II-123. CERAMICS. *Mr. Soldner*. One or two year course. Prerequisite II-2 or equivalent. Two sections. *MWF*, 1:15-4:05, *TTh*, 1:15-4:05, and 3 hours arranged.

II-125. GRAPHICS. *Mr. Darrow*. Year course. Prerequisite II-2 or equivalent. Open to juniors and seniors. *MW*, 4-6 and arranged hours.

II-126. DESIGN. *Mrs. Ames*. One or two year course. Prerequisite II-2 or equivalent. Open to juniors and seniors. *TTh*, 1:15-4:05 and 3 hours arranged.

II-130. SCULPTURE. *Mr. Stewart*. One or two year course. Prerequisite II-2 or equivalent. *MWF*, 1:15-4:05.

II-141. ARCHITECTURAL DESIGN AND PLANNING. *Mr. Criley*. One or two year course. Prerequisite II-2 or equivalent and permission of instructor. *MW*, 1:15-4:05 and 3 hours arranged.

II-145a,b. HISTORY OF ART AND ARCHITECTURE IN THE MIDDLE AGES. *Mr. Hill*. Year course. *MWF*, 8.

Astronomy

The Frank P. Brackett Observatory possesses a large variety of astronomical equipment. The major telescope is a newly rebuilt 12" Newtonian-Cassegrain reflector, completely equipped for visual, photographic or photoelectric work. Subsidiary telescopes include a 6" and a 4" refractor, both of professional quality. An 8" Schmidt Camera will be added to the facilities shortly.

Additional equipment includes a 40 ft. solar telescope, a 13 ft. spectrohelioscope, a 3" meridian transit, and a 15 ft. Littrow grating spectrograph.

A minimum program for concentration in Astronomy, with a minor in Mathematics and Physics, must include Astronomy 61a, b, 156a, b, Physics 51a, b, 113a, b, 153, 101a, b and Mathematics 65a, b and 151a, b. For majors in Astronomy intending to proceed to graduate study, the following courses are also recommended: Astronomy 180a, b, Physics 141a, b and Mathematics 152a, b. The student should possess a reading knowledge of French and German.

1a, 1b. **ELEMENTARY ASTRONOMY.** *Mr. Routly.* A descriptive account of the solar system, constellations and galaxy. Periodic observation of interesting celestial objects with equipment at the Observatory. Field trips to the astronomical centers of the region. No prerequisites. 3 units. *TThS, 10.*

61a, 61b. **GENERAL ASTRONOMY.** *Mr. Routly.* A more thorough version of Astronomy 1. Additional topics include astronomical instruments, celestial mechanics, navigation, stellar types, spectral classification, etc. Laboratory periods are compulsory and form an integral part of the course. Prerequisite: Mathematics 1a, b taken previously or concurrently. Laboratory fee \$4.00 per semester. 4 units. Class *MWF, 10.* Laboratory to be arranged.

156a, 156b. **ASTROPHYSICS.** *Mr. Routly.* The application of physical techniques to astronomical problems of current research interest. The course covers the elements of atomic and molecular spectroscopy, stellar atmospheres, stellar interiors and interstellar space. Prerequisites: Mathematics 151a, b taken previously or concurrently and Physics 51a, b. No previous training in Astronomy required. Course intended for majors in Astronomy and other qualified science students. 3 units. Arranged.

180a, 180b. **SELECTED TOPICS IN ASTRONOMY.** *Mr. Routly.* Intended for majors in Astronomy proceeding to graduate study. Contents will consist of topics not covered in Astrophysics 156a, b. Some suitable investigation, equivalent to a senior thesis, will be conducted by each student during the year. Prerequisite: Astrophysics 156a, b, taken previously or concurrently. 3 units. Classes to be arranged.

Biology

Requirements for Concentration: Botany 12, 15, 75, 107, and 6 units from 103, 105, 123; Biology 112; Zoology 1 and 37 (or 121 and 135); additional upper division units in Botany, Biology, or Zoology to make a total of 30 in a well-balanced program; at least six units chosen from Chemistry, Physics, or Geology.

1a. **GENERAL BIOLOGY.** *Mr. Phillips.* A general course designed for those who do not intend to take further work in the biological sciences. Students who have had high school courses in Biology, Botany, or Zoology should take Botany 12 and 15 or Zoology 1 or 11 instead of Biology 1. Illustrations drawn largely from the plant kingdom. Laboratory fee \$6.00. 3 units. First or second semester; may precede or follow 1b. Class, first semester, *MWF, 10*; second semester, *MWF, 11.* Laboratory, *M, 1:15-2:35* or *2:45-4:05.*

1b. GENERAL BIOLOGY. *Mr. McCarthy, Mr. Ryerson.* With Biology 1a forming a year course; illustrations drawn largely from the animal kingdom and human biology. Lectures, demonstrations, and laboratory. Laboratory fee \$6.00. 3 units. First or second semester; may precede or follow 1a. Class, first semester, *MWF, 11*; second semester, *MWF, 10*. Laboratory *M, 1:15-2:15, or 3:15*.

105. BACTERIOLOGY. *Mr. Amrein.* General study of bacteria including their importance in disease and industry. Laboratory exercises on methods of culture and examination. Prerequisite: one year of biological work. Laboratory fee \$8.00. 4 units. First semester. Lectures *MWF, 9*. Laboratory *MW, 2:15-4:05*.

112. GENETICS. *Mr. McCarthy.* This course considers modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Prerequisite: one year of biological work. 3 units. Second semester. *MWF, 11*.

159. HISTORY OF BIOLOGY. *Mr. Amrein.* A historical consideration of the development of biological theories and concepts and their influences upon society. 3 units. First semester. *MWF, 11*.

Botany

Botany Concentration: LOWER DIVISION COURSES. Botany 12, 15, 75 (at least 3 times); UPPER DIVISION COURSES. Botany 103, 105, 107, 123, and 199; Biology 112. Botany 127 and 167 are recommended. RELATED FIELDS, Zoology 1 or 11; high school or college chemistry. In some instances the Botany Department may approve substitution of 6 units of upper-division courses in Chemistry, Physics, Geology, or Art for one 3-unit required course in Upper Division Botany. Prospective candidates for graduate work should consult the department concerning foreign language requirements for advanced degrees.

Seniors with concentration programs in botany or in biology emphasizing botany are required either (1) to present a satisfactory paper and to pass an oral examination on the field of the paper, or (2) to pass the senior comprehensive examination.

Plant Collection: All students concentrating in botany should consult Mr. Benson concerning the plant collection built up in various courses. This is a graduation requirement, and the collection must be submitted for inspection at the time of the senior comprehensive examination. Credit for individual work on the collection may be had by registration in Botany 75. This course *must be taken in the last semester before graduation* (in order to bring the collection into good order before it is submitted for the final inspection).

Biology Concentration: See Biology listing and mimeographed materials at the Botany Department.

Note: Any Course numbered 100 to 175 may be taken for graduate credit.

12. GENERAL BOTANY. *Mr. Benson.* An elementary study of biological principles as illustrated in plants; emphasis upon structure, life history, evolution, and heredity. Botany 75 is open concurrently with or following Botany 12 as

an elective involving field trips and classroom study of plant geography (1 unit, *T*, 3:15-4:05 with arranged trips). This is required of students concentrating in botany or in biology with emphasis on botany. Laboratory fee \$5.00. 3 units. First semester. Class and laboratory *TTh*, 1:15-3:05. Field trips arranged.

15. FIELD CLASSIFICATION OF PLANTS. *Mr. Benson*. An elementary discussion and field course in classification of primarily the flowering plants but also of ferns and cone-bearing trees. Botany 75 is open concurrently as an elective (1 or 2 units). Students concentrating in botany or in biology with emphasis on botany, usually register concurrently for 1 unit of Botany 75. Laboratory and field trip fee \$5.00. 3 units. Second semester. Class and field, *TTh*, 1:15-3:05. There are some longer trips (*Th*, 1:15-4:05 or arranged).

75. INDIVIDUAL PLANT CLASSIFICATION. *Mr. Benson*. Classification of vascular plants (ferns, cone-bearing trees, and flowering plants); association of species in natural vegetation. The student collection of specimens is used for developing a comparative method of plant identification. May be taken for 1 or 2 units as an elective; usually taken concurrently with Botany 12 and 15 for those concentrating in botany or in biology with emphasis on botany. May be repeated for credit. Laboratory fee \$2.00. 1 or 2 units. *First-year enrollments*, either semester (concurrently with 12 or 15): *T*, 3:15 and arranged. *Subsequent enrollments*: appointments and arranged. Field trips arranged.

81. ELEMENTARY BOTANICAL PROBLEMS. *Staff*. Individual laboratory work in such fields as (a) structure and classification of algae, (b) culture, special physiology, structure, or development of plants, (c) ecology, or (d) elementary research in any field of botany. Each semester, 1 or 2 units, but not more than 1 unit for the first enrollment. May be repeated for credit. Permission of the instructor required. Laboratory fee \$2.00. Arranged.

103a, b. PLANT ECOLOGY. *Mr. Phillips*. The effect of environment upon plants of forests, deserts, chaparral, grassland, and woodland; analysis of plant communities. Prerequisite: Botany 15 or permission of the instructor. Laboratory fee \$6.00. 3 units. Class *MW*, 9; laboratory and field trips, *F*, 1:15-4:05 and occasional longer trips. Given in alternate years.

105a, b. EVOLUTION AND CLASSIFICATION OF FLOWERING PLANTS. *Mr. Benson*. Evolution, relationships, and definition of plant groups; methods and principles of organizing flowering plants into orders, families, genera, species, and varieties; choice of scientific names; preparation and documentation of scientific papers. Prerequisite: Botany 15. Laboratory and field trip fee \$6.00. 3 units. Class and laboratory, *TTh*, 9-10:50. Longer field trips arranged.

107a, b. THE PLANT KINGDOM. *Mr. Benson*. Structure, development, evolution and relationships of classes and orders of algae, fungi, mosses, liverworts, and gymnosperms (cone-bearing trees); fundamental life history of flowering plants. Prerequisite: Botany 12 or Biology 1a or equivalent. Laboratory fee \$5.00. 3 units. Class *MF*, 10; laboratory and field trips, *W*, 1:15-4:05. Given in alternate years. (Omitted in 1958-59.)

123a, b. PLANT PHYSIOLOGY. *Mr. Phillips*. Physiological processes and principles, including photosynthesis, germination, dormancy, water relations, min-

eral nutrition, respiration and growth. Prerequisite: High school or college chemistry. Laboratory fee \$10.00. 3 units. Class *TTh, 10*; laboratory *Th, 1:15-4:05*. Given in alternate years. (Omitted in 1958-59.)

127. ANATOMY OF FLOWERING PLANTS. *Mr. Carlquist*. Structure, life history, and development of angiosperms (flowering plants). Prerequisite: Botany 12 or equivalent. 3 units. First semester. Laboratory fee \$5.00. Class *MW, 11*; laboratory, *M, 2:15-5:05*. Given in alternate years.

167. PLANT MICROTECHNIQUE. *Mr. Carlquist*. Preparation of microscopic slides to represent structure or development of plants or for cytological data. Partly individual work. Prerequisite: Botany 12 or the equivalent; or permission of the instructor. Laboratory fee \$7.00. First semester. 2 or 3 units. Class and laboratory, arranged on *T* between 1:15 and 5:05. Given in alternate years. (Omitted in 1958-59.)

181. ADVANCED BOTANICAL PROBLEMS. *Staff*. Individual work in any field of botany. The student may anticipate preparation of a thesis for the Master's Degree by beginning a problem or continuing one begun in upper division courses. Permission of the instructor required. Laboratory fee \$2.00. 1 to 3 units. Each semester. May be repeated for credit. Arranged.

199. SENIOR SEMINAR. *Mr. Benson* and *Mr. Phillips*. Discussion of botanical problems. Required of all seniors in botany or in biology with emphasis on botany. 1 unit. Second semester. Arranged.

* * *

Graduate work in botany is offered through the Claremont Graduate School by the joint staffs of Pomona College and the Rancho Santa Ana Botanic Garden and the Graduate School. The facilities for research in plant classification are particularly good because the Pomona College Herbarium includes about 315,000 specimens and the combined herbaria nearly 450,000. The libraries of both institutions have been developed most extensively for work in this field, and the Garden has unusual facilities for experimental study of plants.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

Note: The prerequisites listed below apply to Pomona College students. Written permission of the Pomona College department and of the instructor are required.

202a, b. HISTORY OF CULTIVATED PLANTS. *Mr. Lenz*. An intensive study of the origin, development, and distribution of selected plants of economic importance. 2 units. Arranged. (Omitted in 1958-59.)

210. CYTOLOGY. *Mr. Lenz*. Structure and function of the plant cell with special reference to nuclear phenomena. 3 units. First semester. Arranged.

217. ALGOLOGY. A general survey of the algae. Prerequisite: 107. 3 units. First semester. Arranged.

220. EVOLUTION. *Mr. Grant.* The genetic basis of evolutionary changes in populations of plants and animals. The topics discussed are variation, selection, drift, isolating mechanisms, evolutionary rates, and evolutionary trends. Prerequisites: 105 and Biology 112. 3 units. First semester.

225a, b. PHYLOGENY OF ANGIOSPERMS. *Mr. Munz.* Evolution of and relationships in flowering plants. Prerequisite: 105. 2 units. Arranged.

227. MORPHOLOGY AND CLASSIFICATION OF FUNGI. *Mr. Benjamin.* A general course in mycology. Prerequisite: 107. 4 units. First semester. Arranged. (Omitted in 1958-59.)

237. MORPHOLOGY AND CLASSIFICATION OF BRYOPHYTES. *Mr. Phillips.* A survey of the liverworts and mosses. Prerequisite: 107. Second semester when there is sufficient demand. Arranged.

245. PLANT GEOGRAPHY. *Mr. Munz.* The vegetation of the earth with reference to geological history, present distribution, and evolution. Prerequisites: 75, 103. First semester. Arranged.

255. HISTORY OF NORTH AMERICAN FLORAS. *Mr. Benson.* Interpretation of modern floras in the light of geologic history of Cenozoic floras. Prerequisites: 75, 103. Offered when there is sufficient demand. Arranged.

Chemistry

Concentration Requirements: Chemistry 1, 59, 106, 107, 110, 111, 112, 158, 159; Physics 51, 52; Mathematics 1, 65. (Chemistry 51 may be substituted for Chemistry 1, 59, and 106.)

Pre-professional Program: Students who plan to go to graduate school in chemistry should take in addition to the courses listed above Chemistry 184, 185 and 187. This program has been approved by the American Chemical Society Committee for Professional Training of Chemists.

ZOOLOGY-CHEMISTRY CONCENTRATION. See Zoology.

1a, 1b. INTRODUCTORY CHEMISTRY. *Mr. Quinlan* and *Mr. Allen.* Beginning course to acquaint the student with basic principles of chemistry and reactions of the more common elements. Limited to science majors. Fee \$6.00 each semester. Deposit \$5.00 for the year. 4 units. Lectures, *MWF*, 9; laboratory *TTh* or *F*, 1:15-4:05.

2a, 2b. BIO-ORGANIC CHEMISTRY. *Mr. Hansch.* An introduction to the physical principles of chemistry followed by a survey of organic chemistry and its applications to bio-chemistry. This course is recommended for the general student and those interested in the biological sciences. Fee \$6.00 each semester. Deposit \$5.00 for the year. 4 units. Lectures *MWF*, 8; laboratory *W*, 1:15-4:05.

51a, 51b. BASIC CHEMISTRY, QUANTITATIVE AND QUALITATIVE ANALYSIS. *Mr. Fuller.* Covers material of Chemistry 1, 59, and 106. The laboratory covers quantitative analysis first semester and qualitative analysis second semester.

Open to unusually well qualified freshmen by permission of instructor. Fee \$6.00, deposit \$5.00. 5 units. Lectures *MWF*, 9; laboratory *TTh*, 1:15-4:05.

59. QUALITATIVE ANALYSIS. *Staff*. Separation and identification of the common inorganic ions by semimicro techniques. Prerequisite: Chemistry 1 or 2. Fee \$6.00, deposit \$5.00. 3 units. First semester. Lecture *TTh*, 10; laboratory *M* or *W*, 1:15-4:05.

106. BEGINNING QUANTITATIVE ANALYSIS. *Staff*. An introduction to volumetric and gravimetric analytical procedures. Prerequisite: Chemistry 59. Fee \$8.00, deposit \$10.00. 3 units. Second semester. Lecture, *T*, 10; laboratory, *M*, 2:15-5:05, and *W*, 1:15-4:05.

107. ADVANCED QUANTITATIVE ANALYSIS. *Staff*. An introduction to modern instrumental analysis. Prerequisite: Chemistry 106 or equivalent. Fee \$8.00, deposit \$10.00. 3 units. First semester. Laboratory *M*, 2:15-5:05 and *TW*, 1:15-4:05.

110a, 110b. ELEMENTARY ORGANIC CHEMISTRY. *Mr. Allen*. The first semester devoted to the study of aliphatic compounds and the second semester to aromatic. Prerequisite: Chemistry 1 or 2 or 51. 3 units. Lectures *MWF*, 8.

111a, 111b. INTRODUCTION TO ORGANIC LABORATORY METHODS. *Mr. Allen*, *Mr. Hansch*. Instruction in laboratory operations, qualitative organic analysis and organic preparations. Students concentrating in chemistry should take Chemistry 112a, 112b concurrently. Fee \$6.00, deposit \$10.00 each semester. 1 unit. Laboratory *T* or *F*, 1:15-4:05.

112a, 112b. ORGANIC SYNTHESIS. *Mr. Allen*. Advanced organic preparations. The first semester will include discussion of the use of chemical literature. Fee \$7.50, deposit \$5.00. 2 units first semester. 1 unit second semester. *F*, 1:15-4:05, plus one hour arranged first semester.

158a, 158b. PHYSICAL CHEMISTRY. *Mr. Fuller*. Prerequisite: Chemistry 106, Physics 51, Mathematics 65. Chemistry 110 may be taken concurrently. 3 units. Lectures *MWF*, 11.

159. PHYSICAL CHEMISTRY LABORATORY. *Mr. Quinlan*. Prerequisite: Chemistry 158a, b. (158b may be taken concurrently.) Fee \$10.00, deposit \$5.00. 3 units. Second semester. Laboratory *M*, 2:15-5:10 and *TW*, 1:15-4:05.

181. CURRENT TOPICS IN CHEMISTRY. *Staff*. Prerequisite: Chemistry 110, German 1. 1 unit. Second semester. Arranged.

184. ADVANCED ORGANIC CHEMISTRY. *Mr. Hansch*. A survey of organic reaction mechanisms. Prerequisite: Chemistry 110, 158a. 3 units. Second semester. Lectures *MWF*, 10.

185. ADVANCED INORGANIC CHEMISTRY. *Mr. Quinlan*. The lectures will include a discussion of atomic and molecular structure and such selected topics as coordination compounds, nuclear chemistry, and chemical statistics. Prerequisites: Chemistry 158 (may be taken concurrently). 3 units. First semester. Lectures *MWF*, 10.

187. QUALITATIVE ORGANIC ANALYSIS. *Mr. Hansch.* The use of systematic methods for the identification of organic compounds. Prerequisite: Chemistry 110, and reading knowledge of German. Fee \$7.50, deposit \$5.00. 3 units. First semester. *F, 1:15-3:05* plus two arranged periods.

198. SUMMER RESEARCH. *Staff.* Open to junior and senior students of proven ability by invitation. June 15-August 1. 4 units. Arranged.

199. UNDERGRADUATE RESEARCH. *Staff.* Seniors may take 6 units of research under direction of a staff member. The work may be taken in one semester or extended over two. A thesis is required. Prerequisite, average of B in chemistry courses and consent of instructor. Fee \$3.00 per unit, deposit \$5.00. Each semester. Arranged.

Classics

In the interest of providing a maximum offering in Classics, a coordinated program is offered by the departments of Pomona and Scripps Colleges.

For concentration in Classical languages and literature a student is required to take at least 24 units in courses numbered over 100 in Greek and Latin languages or their Scripps equivalents and 12 units in modern European languages (French and German preferred). A selected reading list from Greek and Latin authors must be completed by the student in class work or outside reading to the satisfaction of the department. Additional courses in ancient and medieval history, philosophy, Continental and English literature, and modern European languages are recommended.

Joint Concentration: Philosophy and Classics. See Philosophy.

GREEK

51A-51b. ELEMENTARY GREEK. *Mr. Carroll.* Greek grammar and syntax for beginning students. 3 units. *MWF, 8.*

101A, 101b. INTERMEDIATE GREEK. *Mr. Carroll.* For students with Greek 51 or equivalent. Selected readings from Classical and New Testament Greek. 3 units. Arranged.

182A, 182b. GREEK READINGS AND COMPOSITION. *Mr. Carroll.* For students with Greek 101 or equivalent. This course may be repeated for credit with permission of the department. 3 units. Arranged.

LATIN

57A, 57b. INTERMEDIATE LATIN. *Mr. Carroll.* For students with one or two years of secondary school Latin or Latin 1. Readings from Cicero, Vergil and Ovid with grammar review. 3 units. Arranged. (Omitted in 1958-59, offered at Scripps.)

GREEK AND ROMAN LITERATURE IN TRANSLATION

160A, 160b. CLASSICAL MYTHOLOGY AND LITERATURE IN ENGLISH TRANSLATION. *Mr. Carroll.* Mythology and the growth of literature with selected readings in Graeco-Roman epic, lyric, drama and prose literature. No prerequisite. 3 units. *TThS, 9.* (Omitted in 1958-59.)

AVAILABLE AT SCRIPPS COLLEGE

- I-8. ELEMENTARY LATIN. *Mr. Palmer*. Year course. Arranged.
- I-58. INTERMEDIATE LATIN. *Mr. Palmer*. Year course. Arranged.
- I-101. LATIN LYRIC. *Mr. Palmer*. Fall semester. Arranged. (Omitted in 1958-59.)
- I-102. THE LATIN LETTER. *Mr. Palmer*. Spring semester. Arranged. (Omitted in 1958-59.)
- I-104. ROMAN DRAMA. *Mr. Palmer*. Fall semester. Arranged.
- I-105. LUCRETIVS. *Mr. Palmer*. Spring semester. Arranged.
- I-107. GREEK AND ROMAN TRAGEDY IN ENGLISH TRANSLATION. *Mr. Palmer*. Year course. Arranged. (Omitted in 1958-59.)
- I-108. LATIN READING AND PROSE COMPOSITION. *Mr. Palmer*. Year course. Arranged.
- I-176. ROMAN SATIRE. *Mr. Palmer*. Fall semester. Arranged. (Omitted in 1958-59.)
- I-177. THE ROMAN HISTORIANS. *Mr. Palmer*. Spring semester. Arranged. (Omitted in 1958-59.)

* * *

HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART AND ARCHAEOLOGY. For description see Art 107a, 107b.

Comparative Literature

Concentration in Continental Literature. Requirements: 24 units in courses numbered over 100. Twelve of these units must be in Continental Literature (in translation), twelve in European or classic literature in the original language. Electives in English literature and Classics 160a, b are strongly recommended.

181a, 181b. READINGS IN CONTINENTAL LITERATURE IN TRANSLATION. *Mr. Baumann*. A study of outstanding works of Goethe, Molière, Balzac, Dostoevsky, Tolstoy, Ibsen, Hauptmann and others. (Open to Seniors. Others admitted only on permission of the instructor.) May be repeated for credit. 3 units. Arranged.

Economics

Prerequisites: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics. A grade of C or better in both courses is required for concentration in the field.

Required courses: Economics 57, 71, 103, 104, 109, 110, and other courses in economics to bring the total of upper-division courses to 24 units.

Recommended Programs: Economics 51, 52, 57 and 71 should be taken in the sophomore year, 103, 104, 109, and 110 in the junior year, and other courses in the field of the student's special interest during the senior year. In order to achieve a desirable balance between breadth and depth, students should seek a well-integrated selection of courses in the humanities, social sciences, and sciences during each of the four years.

Students who are concentrating in Economics primarily for cultural reasons should include 195 and 199 in their programs.

Students who plan to attend a graduate school of business or enter a corporation training program should include 72, 111, and expository writing.

Pre-legal students should take a full year of accounting, elementary and intermediate, and 189 and 198 in addition to the core curriculum.

Economics-Engineering students should take both the 103, 109 and the 104, 110 sequences before taking courses numbered over 150.

Students who contemplate a career in teaching or research, whether in educational institutions, non-profit research organizations or private industry, should include courses in mathematics and foreign language. Both are often required for advanced degrees in Economics.

Three-Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

In order to familiarize its students with the economic and political foundations of American life, the Departments of Economics and Government have organized a year course in American economic and political institutions through which students *who cannot take a full year* in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term and that pertaining to politics (Government 52) only in the spring but students may begin the course at whichever time best suits their schedules. The combined course may be offered in fulfill-

ment of one of the requirements for distribution in the lower division. For outline of contents and time schedule see regular course descriptions under the respective departments.

ECONOMICS

51. ECONOMIC ANALYSIS. *Staff*. An introduction to modern economic society with emphasis on the nature and operation of the American economy. 3 units. First semester. *MWF*, 9, 10, 11; *TThS*, 9, 10; for those continuing second semester with Government 52, *MWF*, 8; *TThS*, 8.

52. ECONOMIC PROBLEMS AND POLICIES. *Staff*. A continuation of Economics 51 with emphasis on current problems and related public policies. Prerequisite: Economics 51. 3 units. Second semester. *MWF*, 9, 10, 11; *TThS*, 9, 10.

57. STATISTICS FOR THE SOCIAL SCIENCES. *Mr. Spiegelman*. A course in the application of quantitative method to economic and social problems with emphasis on the interpretation of the results obtained. (Credit will not be given for both Economics 57 and Psychology 102.) 3 units. Second semester. *TTh*, 8; laboratory, *T* or *W*, 1:15-3:05.

71. ELEMENTARY ENTERPRISE ACCOUNTING. *Mr. Stuart*. The theory and practice of accounting in the merchandising business firm. Corporation, partnership, and individual proprietorship accounting. 4 units. First semester. *MWF*, 8; laboratory, *Th* or *F*, 1:15-3:05.

72. ELEMENTARY COST ACCOUNTING. *Mr. Stuart*. The theory and method of accounting in the manufacturing business unit. Emphasis on job-order, process, and standard cost systems. Prerequisite: Economics 71 or equivalent. 4 units. Second semester. *MWF*, 8; laboratory, *Th* or *F*, 1:15-3:05.

ADVANCED COURSES

Economics 51 and 52 or equivalent are prerequisites for all advanced courses in Economics.

103. MONEY AND BANKING. *Mr. Bond*. Principles of money, credit, and banking; the relation of money, income, and prices; and the problems of monetary management and fiscal policy. 3 units. First semester. *TThS*, 9.

104. ECONOMIC THEORY AND BUSINESS POLICY. *Mr. Cook*. A study of economic organization, markets and prices, resource use and income division in markets containing various mixtures of competition and monopoly. 3 units. First semester. *MWF*, 10.

106. ECONOMICS OF CONSUMPTION. *Mr. Perry*. A study of consumer behavior and an analysis of factors behind demand; includes such subjects as mathematics of finance, insurance and investments. 3 units. First semester. *TThS*, 10.

109. NATIONAL INCOME. *Mr. Stuart*. A study of national income concepts and their measurement, the determinants of the level of national income and employment, and the general features and causes of fluctuations in economic activity. 3 units. Second semester. *TThS*, 9.

110. INDUSTRIAL ORGANIZATION AND PUBLIC POLICY. *Mr. Bond*. The role of competition in a free society; public policies designed to maintain competition, alter its character, or regulate monopoly, in light of the economic characteristics and business practices of modern industry; a study in economics and law. 3 units. Second semester. *MWF, 10*.

111. LABOR ECONOMICS. *Mr. Perry*. A brief history of organized labor is followed by an analysis of wage policies, labor productivity, collective bargaining, minimum wage legislation, labor monopoly and current labor legislation. 3 units. Second semester. *MWF, 9*.

150. MANAGEMENT ACCOUNTING. *Staff*. An analytical development of the role of accounting as a basis for managerial control and decision-making. Emphasis will be placed upon the legal, tax, and financial aspects of the modern business entity. Prerequisite: Economics 71. 3 units. Second semester. *MWF, 8*.

154. INTERNATIONAL ECONOMICS. *Mr. Calderwood*. An analysis of trade and monetary relationships in the international economy. 3 units. First semester. *TThS, 9*.

189. PUBLIC FINANCE. *Mr. Stuart*. An analysis and evaluation of the effects of current governmental taxing, spending, borrowing, and debt management policies on the American economy. 3 units. First semester. *MWF, 9*.

191. MONETARY THEORY AND POLICY. *Mr. Cook*. The interrelationships of money, income, and prices, with emphasis on the theory of output as a whole and policies designed to maintain high level employment without inflation. Prerequisites: Economics 103, 104, and 109, or equivalent. 3 units. Second semester. Arranged.

195. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Cook*. A comparison of alternative forms of economic organizations, with major emphasis on the economic systems of the United States and the Soviet Union. 3 units. Second semester. *TThS, 10*.

197. INTRODUCTION TO RESEARCH. *Staff*. Supervised advanced study in selected fields of economics. Open to qualified seniors with the permission of instructor and chairman of the department. 3 units. Each semester. Arranged.

198. ECONOMIC THEORY. *Staff*. Senior seminar. Applications of the analytical tools and ideas developed in earlier courses, both micro and macro theory, with emphasis on methods of analysis and integration of knowledge. A seminar for seniors concentrating in economics. 3 units. First semester. *MWF, 11*.

199. READINGS IN ECONOMICS. *Mr. Bond*. Senior seminar for economics majors. Reading and discussion of leading books, current problems, and public policies. 3 units. Second semester. *MWF, 11*.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Corporation finance, business law, and personnel administration are available at Claremont Men's College. Students who have completed the prerequisites, Economics 51 and 52, may enter these courses with the permission of their advisers.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the permission of the chairman of the department and the instructor of the graduate seminar.

MONETARY THEORY AND POLICY. *Mr. Cook.* 4 units. Second semester.

LABOR ECONOMICS. *Mr. Perry.* 4 units. (Omitted in 1958-59.)

MATHEMATICS FOR ECONOMISTS. *Mr. Vandermeulen.* 4 units. First semester.

INTERNATIONAL ECONOMICS. *Mr. Calderwood.* 4 units. Second semester.

Education

Students considering a teaching career at the elementary, secondary, or junior college level should seek advisement early in their college years. In this way undergraduate programs can be planned to meet credential requirements and to contribute most directly toward successful teaching careers at the level selected. See page 76 for further information.

For advisement, including information on certification requirements in California and other states, please consult the following faculty members: POMONA COLLEGE: Mr. Faust and Mr. Sanders. THE CLAREMONT GRADUATE SCHOOL: *Elementary*—Mr. Malcolm P. Douglass, Harper Hall 15; *Secondary and Junior College*—Mr. Arthur R. King, Jr., Harper Hall 201 and Mr. Clyde E. Curran, Harper Hall 208. Appointments for conferences may be arranged by calling the Education Secretary, Ext. 2211.

155. **CONTEMPORARY PROBLEMS OF EDUCATION.** *Mr. Curran.* The following topics will be discussed in this course: the school as a social institution; the school and community structure; conflicts regarding the place of the school in American society. Prerequisite: Sociology 51 or permission of instructor. 3 units. First semester. Arranged.

170. **INTRODUCTION TO PUBLIC SCHOOL TEACHING.** *Mr. Douglass, Mr. King.* This course is planned for senior students considering a teaching career in elementary or secondary schools. Emphasis is placed upon developing an understanding of the role of public education in contemporary society. Attention is given to the curriculum of the elementary and secondary school, issues and problems of instruction, and an evaluation of current trends and practices in public education. In the latter part of the semester an extensive school and classroom observation program is provided. It may comprise the first part of the Claremont Graduate School Teaching Internship Programs. 3 units. Second semester. *T, 1:15-3:15.*

English

English 1 or its equivalent is prerequisite for all other departmental courses. English 50 and History 1 are required of all students intending to concentrate in the Department of English.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recommended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

Electives should be chosen, in consultation with the adviser, from courses in Speech and Dramatics, foreign literature, the history of England, the history of philosophy, and (especially for students interested in writing) elementary applied art.

Transfer students may offer equivalent courses pursued at other colleges in fulfillment of these requirements and recommendations.

CONCENTRATION WITH EMPHASIS ON LITERATURE

Students who are concentrating in literature must choose from each of the four groups below at least the number of units specified. English 115 must be taken in the first semester of the Junior year.

- Group I (6 units): ENGLISH 153, 154, 155, 156.
- Group II (9 units): ENGLISH 102, 103, 104, 106, 107, 108.
- Group III (6 units): ENGLISH 105, 160, 162, 163.
- Group IV (6 units): ENGLISH 115 and 197.

CONCENTRATION WITH EMPHASIS ON WRITING

The following pattern of courses must be completed, for a total of at least 27 units, by students concentrating in writing.

1. Upper-division courses in composition (111, 151; Speech and Dramatics 112): 6 to 12 units, of which 3 units must be in English 111. Note that certain courses in composition may be repeated for credit under proper conditions.
2. English 153, 154, 155, 156: 6 units.
3. English 102, 103, 104, 105, 106, 107, 108: 9 units.
4. English 162 and 163: 6 units.

A brief reading list, designed to acquaint students with the major figures in literature, will supplement course assignments in the programs of concentration. The books on this list, many of which will already have been read in course, will be included in the comprehensive examination.

CONCENTRATION IN LITERATURE AND PHILOSOPHY: See Philosophy.

1a, 1b. ENGLISH: AN INTRODUCTORY COURSE. *Staff.* The fundamentals of composition and practice in writing. Reading and study of a few important literary types. Students with marked deficiencies in the use of English may be required to meet for a fourth hour (arranged). 3 units. Section meetings

MWF, 8, 9; *TThS*, 8, 9. Section of 1b first semester for specially qualified students, *TThS*, 9.

50a, 50b. GREAT AUTHORS. *Staff*. An historical and critical study of several great writers, the major periods, and the dominant forms of literature in English. 3 units. *MWF*, 11; *TThS*, 9, 10.

56. INTRODUCTION TO POETRY. *Mr. Fussell*. A study of the principal aims and techniques of poetry. Readings in a wide variety of poetic types. 3 units. First semester. *TThS*, 9.

57. INTRODUCTION TO DRAMA. *Mr. Davis*. Great plays of various periods from the classic Greek to the present day; as extensive reading as time will permit. 3 units. Second semester. *MWF*, 10.

58. INTRODUCTION TO PROSE FICTION. *Mr. Frazer, Mr. Beatty*. A survey of important works in prose fiction with emphasis upon selected novels — English, American, and continental — from the eighteenth century to the present. 3 units. First semester: *MWF*, 10. Second semester: *TThS*, 9.

61a, 61b. PUBLICATIONS. *Mr. Frazer, Mr. Overaker*. Practice of journalism by work on student publications. Open to editors and staff members of *Student Life* and *Metate*. Prerequisite: work on these publications for two semesters and permission of the instructor. May be repeated for credit. One unit. Arranged.

63. EXPOSITORY WRITING. *Mr. Bracher and Staff*. Practice in expository writing, especially for the student who is planning a career in business or one of the professions, such as law, medicine, or scientific research. Enrollment limited to 25 students. 3 units. First semester: *MWF*, 11. Second semester: *TTh*, 1:15-2:30.

64. NARRATIVE AND DESCRIPTIVE WRITING. *Mr. Weismiller, Mr. Mulhauser*. A course for students who, having shown some ability as writers in English 1 or its equivalent, wish to continue with the basic creative problems of narration and description. This course is a prerequisite for English 111 and 151. Enrollment limited to 25 students each semester. In exceptional circumstances, the course may be repeated for credit by permission of the instructor. 3 units. First semester: *TThS*, 9. Second semester: *TThS*, 10.

ADVANCED COURSES

102. THE AGE OF SWIFT AND POPE. *Mr. Bracher*. A survey of the literature of the Restoration and early eighteenth century. Main topics: Restoration drama and neo-classic literature. 3 units. Second semester. *MWF*, 2:15. (Alternates with 103.)

103. THE AGE OF JOHNSON. *Mr. Bracher*. A survey of the literature of the later eighteenth century. Main topics: the beginning of the novel, pre-romantic poetry, Dr. Johnson and his circle. 3 units. Second semester. *MWF*, 2:15. (Offered in alternate years; omitted in 1958-59.)

104a, 104b. LITERATURE OF THE NINETEENTH CENTURY. *Mr. Lang, Mr. Mulhauser.* An intensive study of the major poets and prose-writers of the Romantic period (first semester) and the Victorian period (second semester). 3 units. *TThS, 9.*

105a, 105b. AMERICAN LITERATURE. *Mrs. Jordan, Mr. Holmes.* An intensive study of the great American writers of the nineteenth century. First semester: Edwards to Hawthorne. Second semester: Melville to E. A. Robinson. 3 units. *TThS, 10.*

106. ELIZABETHAN POETRY AND PROSE. *Mr. Strathmann.* Non-dramatic literature of the Elizabethan period, with emphasis upon the poems of Edmund Spenser. 3 units. First semester. *MWF, 9.* (Offered in alternate years; omitted in 1958-59.)

107. TUDOR AND STUART DRAMA. *Mr. Strathmann.* A study of the development of the drama and of the plays of principal dramatists other than Shakespeare from 1500 to 1642. 3 units. First semester. *MWF, 9.* (Alternates with 106.)

108. SEVENTEENTH-CENTURY POETRY AND PROSE. *Mr. Strathmann.* Non-dramatic literature, 1600-1660: Bacon, Donne and the Metaphysical Poets, Jonson and the Cavalier Poets, selected prose writers. 3 units. Second semester. *MWF, 9.*

111. THE SHORT STORY. *Mr. Frazer.* Practice in the writing of short stories and sketches. (A student who has completed both English 111 and English 151 may repeat one of these courses for credit.) Enrollment limited to 25 students. Prerequisite: English 64 and permission of the instructor. 3 units. First semester. *TTh, 1:15-2:30.*

115. LITERARY CRITICISM. *Mr. Holmes.* Reading of important documents of literary criticism; application of critical principles and techniques to selected literary works. 3 units. First semester. *TTh, 2:40-3:55.*

151. CREATIVE WRITING. *Mr. Weismiller.* Supervised practice in the forms of creative writing, selected according to the needs and abilities of the students. (A student who has completed both English 111 and English 151 may repeat one of these courses for credit.) Enrollment limited to 25 students. Prerequisites: English 64, and English 111 or permission of the instructor. 3 units. Second semester. *TTh, 1:15-2:30.*

153. CHAUCER. *Mr. Davis.* A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. 3 units. Second semester. *MWF, 2:15.* (Offered in alternate years; omitted in 1958-59.)

154. THE ENGLISH LANGUAGE. *Mr. Bracher.* A survey of the English language from its origins to the present. Especially recommended to prospective teachers. 3 units. First semester. *MWF, 8.*

155a, 155b. SHAKESPEARE. *Mr. Davis*. A study of the principal plays and of Shakespeare's career as a dramatist. First semester, mainly comedies and histories; second semester, mainly tragedies. 3 units. *MWF, 11*.

156. MILTON. *Mr. Weismiller*. A study of the poems and selected prose works, emphasizing the literary and intellectual background of Milton's work. 3 units. First semester. *MWF, 2:15*. (Alternates with 153.)

160a, 160b. THE ENGLISH NOVEL. *Mr. Frazer*. A study of the development of the novel in England. First semester: major British novelists from Fielding to George Eliot. Second semester: from Thomas Hardy to the present. 3 units. *MWF, 10*. (Not offered in 1958-59.)

162. CONTEMPORARY NOVELISTS. *Mr. Mulhauser*. The novels of James, Lawrence, Joyce, Woolf, and Faulkner, with emphasis upon their principles of narrative art and philosophical points of view. Lectures and class discussion. 3 units. First semester. *MWF, 10*.

163. CONTEMPORARY POETS. *Mr. Weismiller*. Poets of the twentieth century, Gerard Manley Hopkins to the present, studied in the light of the great poetic tradition. 3 units. Second semester. *MWF, 10*.

196. PROBLEMS OF WRITING. *Staff*. A specialized course in advanced composition; group and individual conferences. Prerequisites: English 64, 111 and 151 and permission of instructor. 1 or 2 units. Second semester, one hour a week. Arranged.

197. DIRECTED READING. *Mr. Mulhauser, Mr. Strathmann, and Staff*. Individually planned reading programs. Optional in the first semester for Senior concentrators. Required, in the second semester, of all Seniors concentrating in English literature. Senior thesis. Credit given for both semesters. 3 units. Each semester. Conference period *T* or *Th, 2:40-3:55*.

CHARACTER PRESENTATION IN DRAMATIC LITERATURE. For description see Speech and Dramatics 61a, 61b.

PLAYWRITING. For description see Speech and Dramatics 112a-112b.

AVAILABLE AT SCRIPPS COLLEGE

Some Scripps courses (starred) duplicate courses at Pomona. Credit will be allowed for either the Scripps or the Pomona course, but not both.

*I-116a, b. SHAKESPEARE. *Mr. Gray*. *TTh, 3:45-5:00*.

*I-136. SEVENTEENTH CENTURY ENGLISH LITERATURE. *Mr. Fogle*. First semester. *MW, 3:15-4:30*.

*I-144. THE ROMANTIC POETS. *Mr. Armour*. Year course. *MWF, 8*.

*I-145. MILTON. *Mr. Fogle*. Second semester. *MW, 3:15-4:30*.

I-148. CONTEMPORARY DRAMA. *Mr. Gray*. First semester. *MWF, 10*.

*I-158. NEW ENGLAND IN AMERICAN LITERATURE. *Mr. Foster*. First semester. *MWF, 11*.

I-159. THE MIDWEST IN AMERICAN LITERATURE. *Mr. Foster*. Second semester. *MWF, 11*.

Geology

Geology 1 is a non-technical course intended for students majoring in humanities or social sciences. Geology 51 and 52 are designed for students with some scientific background in high school, and are prerequisites for all the more advanced work in the department. The other courses are offered for persons intending to specialize in geology or a related science.

A student concentrating in geology should include courses 51, 52, 103, 105, either 153 or 157, and 181. Required in other departments: Mathematics 1; Physics 51; Chemistry 1; and a reading knowledge of German or French. Mathematics 65 is strongly recommended. In exceptional cases courses in biology may be substituted for those in physics or mathematics.

1a, 1b. INTRODUCTION TO EARTH SCIENCE. *Mr. McIntyre*. An introductory survey course designed for the non-technical student. Occasional field trips and laboratory demonstrations are arranged to illustrate topics dealt with in the lectures. No prerequisites. Not counted towards the major in Geology. 3 units. *MWF, 10.*

51a, 51b. INTRODUCTION TO GEOLOGY. *Mr. Oertel*. This course is recommended for students interested in geology and having an elementary background of mathematics, physics and chemistry. It is a prerequisite for all other courses in the department except Geology 1. 3 units. *MWF, 10.*

52a, 52b. LABORATORY AND FIELD WORK SUPPLEMENTING GEOLOGY 51a, 51b. *Mr. Oertel and Mr. Baird*. This course is normally open only to students who are taking or have taken Geology 51. 1 unit. *Th, 1:15-4:05.*

103a, 103b. INTRODUCTION TO MINERALOGY AND PETROLOGY. *Mr. McIntyre*. The first semester includes crystallography and the elements of crystal optics and is open to qualified non-majors. Prerequisites: Mathematics 1, Geology 51, 52, and Chemistry 1, completed or in progress, or consent of the instructor. Laboratory fee \$4.00 each semester. 4 units. Class *WF, 11*; Laboratory *T* and *F, 1:15 to 4:05.*

105a, 105b. STRUCTURAL AND FIELD GEOLOGY. *Mr. Oertel*. Structural features of sedimentary, igneous and metamorphic rocks; practice in laboratory methods dealing with geological problems in three dimensions. Field methods; geological mapping; spring recess trip; writing of geological reports. Prerequisite: Geology 103, completed or in progress. Laboratory fee \$4.00 first semester. 4 units. Class *TTh, 10*; laboratory *W, 1:15-4:05.* Saturday must be kept free for field work.

153a, 153b. OPTICAL MINERALOGY AND PETROGRAPHY. *Mr. Baird*. Advanced methods, including the use of the Universal stage. Prerequisite: Geology 103. Laboratory fee \$5.00 first semester; \$8.00 second semester. 3 units. Class *TTh, 9*; laboratory, arranged.

157a, 157b. PALEONTOLOGY AND STRATIGRAPHY. *Mr. McIntyre*. Prerequisite: Geology 105. Laboratory fee \$6.00 each semester. 3 units. Arranged.

Courses of Instruction

181a, 181b. GEOLOGICAL FIELD INVESTIGATION. *Mr. McIntyre*. Prerequisite: Consent of instructor. Laboratory fee \$4.00 each semester. 2 units. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified undergraduate students who have obtained the consent of the instructor in charge.

201. REGIONAL GEOLOGY. (Not offered in 1958-59.)

202. PHYSICAL GEOLOGY. *Staff*.

203. ADVANCED MINERALOGY AND PETROLOGY. *Mr. Baird*.

205. ADVANCED STRUCTURAL GEOLOGY. *Mr. Oertel*.

German

A program of concentration in German consists of a minimum of 18 units in courses numbered above 100 and 6 additional units in German or in a related field selected according to the student's needs and interests. Special programs for students interested in German Literature, translation, library work, or post graduate work in German can be had from the department.

Extra-curricular activities: The *Deutsches Haus* is the center of the department's extra-curricular activities where students may enjoy the benefit of a German-speaking environment. Regular programs on a variety of subjects of cultural interest are sponsored by the *Deutscher Verein* (German Club) and *Delta Phi Alpha* (National Honorary German Fraternity). Students are invited to participate in a bi-weekly *Deutscher Tisch* where German is spoken while eating lunch.

In addition to class work, first and second year students are required to spend one hour per week in the Language Laboratory. Laboratory fee, \$1.00 per semester.

1a-1b. ELEMENTARY GERMAN. *Staff*. Emphasis on the acquisition of basic reading skills and aural comprehension. 3 units. *MWF*, 9, 11; *TThS*, 10.

53a-53b. ADVANCED GERMAN. *Staff*. Intensive reading of selected German works, with collateral reading in the field of the student's individual interest. Continued practice in German conversation. Prerequisite: German 1 or equivalent. 3 units. *MWF*, 9; *TThS*, 9.

ADVANCED COURSES

102a, 102b. ADVANCED CONVERSATION, READINGS AND TRANSLATION. *Mr. Mathieu*. Intensive critical readings of masterpieces of the eighteenth and nineteenth centuries. Drill in written and oral expression. Prerequisite: German 53 or equivalent. 3 units. *MWF*, 9. (Omitted in 1958-59.)

109a, 109b. GERMAN LITERATURE OF THE NINETEENTH CENTURY. *Mr. Mathieu*. Reading and interpretation of plays, poetry, and narrative prose works which

reflect the development of Romanticism to the emergence of Naturalism. Prerequisite: German 53 or equivalent. 3 units. *TThS*, 9. (Offered in alternate years; given in 1958-59.)

113a, 113b. GERMAN CLASSICS OF THE EIGHTEENTH CENTURY. *Mr. Mathieu*. A study of the development of Enlightenment through Storm and Stress to the ideal of *Humanität*, as illustrated by the major works of Lessing, Schiller, Goethe. Prerequisite: German 53 or equivalent. 3 units. *TThS*, 9. (Offered in alternate years; omitted in 1958-59.)

158a, 158b. MODERN GERMAN LITERATURE. *Mr. Baumann*. The development of German Literature from 1880 to the present with reference to the political and social changes during that period. 3 units. (Omitted in 1958-59.)

160a, 160b. SURVEY OF GERMAN LITERATURE. *Mr. Baumann*. The development of German Literature from earliest times to the present. 3 units. *MWF*, 11.

Government

General Requirement: Government 51 and 52 are desirable prerequisites for advanced courses, but the Department invites students who have taken either of these courses or have had considerable work elsewhere in the social sciences to confer with staff members regarding enrollment in any course desired.

Lower Division Prerequisites for Concentration: The following courses should be completed by the end of Sophomore year: History 1; Government 51, 52; Economics 51, 52. The introductory course in Sociology or Anthropology is strongly recommended and also the elementary course in statistics and a semester of accounting.

Program of Concentration: A minimum of 27 upper division units, each student's program being arranged in consultation with the departmental staff. A reading and speaking knowledge of at least one modern foreign language is strongly advised, particularly for students having any intention of seeking positions in foreign service or of engaging in graduate study.

Pre-legal students majoring in Government should strive for breadth and balance in their programs including, however, in each case the courses on Constitutional Law and Law and Society and at least a semester's work in accounting.

Three Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students so interested to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

In order to familiarize its students with the economic and political foundations of American life, the Departments of Economics and Government have organized a year course in American economic and political institutions through which students who cannot take a full year in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term; that pertaining to politics (Government 52) may be taken either in the autumn or the spring and either preceding, following or concurrently with Economics 51. The combined course may be offered in fulfillment of one of the requirements for distribution in the lower division. For outline of contents and time schedule see regular course descriptions under the respective departments.

51. FUNDAMENTALS OF POLITICS. *Staff*. Political theory, institutions and behavior as revealed in the enduring issues of politics. 3 units. First semester. *MWF*, 8, 9; *TThS*, 8. Second semester. *TThS*, 8, 9.

52. AMERICAN GOVERNMENT. *Staff*. Analysis of the American system of constitutional government, mainly on the national level, and of the position of the United States in world politics. May be combined with Economics 51 to enable students who cannot devote more than six hours to the two fields to do some basic work in each. 3 units. First semester. *TThS*, 8, 9. Second semester. *MWF*, 9, 11; *TThS*, 8.

53. CONTEMPORARY POLITICS. *Staff*. Analysis of outstanding issues of the day in national and international affairs, based upon the reading of representative periodicals, both domestic and foreign. 1 unit. Each semester. *Th*, 1:15.

101. STATE AND LOCAL PROBLEMS. *Mr. Vieg*. Trends and problems in American city, county and state government, including those of metropolitan areas. Emphasis on planning, conservation, taxation. 3 units. (Omitted 1958-59.)

102. SUMMER FIELD PROJECTS (Claremont Summer Session). *Staff*. Individual investigation and report on a) a local community or b) some state or national problem, involving in either case a substantial amount of field work conducted according to a systematic plan prepared and accepted in advance. Open only to students capable of independent work and limited to a maximum of ten. 3-6 units. Time to be arranged in consultation with the instructor.

125. COMPARATIVE POLITICAL SYSTEMS. *Mr. Bruce*. Comparative analysis of political forces and governmental institutions mainly in Britain, France, Germany, and the Soviet Union. 3 units. First semester. *MWF*, 9.

126. GOVERNMENT AND POLITICS OF RUSSIA AND EASTERN EUROPE. *Mr. Neal*. A study of Soviet ideology and institutions and a survey of the political systems of Yugoslavia and the satellite countries of Eastern Europe. 3 units. Second semester. *MWF*, 9.

131. PARTIES AND PRESSURE GROUPS. *Mr. Flournoy*. Role of parties, pressure groups, politicians and voters in the American political process. 3 units. First semester. *MWF, 11*.

142. PRINCIPLES OF ADMINISTRATION. *Mr. Flournoy*. A study of the essentials of public administration and management: organization, personnel, finance, public relations. Comparison with business administration. 3 units. Second semester. *MWF, 11*.

151. FUNDAMENTALS OF INTERNATIONAL RELATIONS. *Mr. Olson*. Basic factors of power; the balancing process; comparative foreign-policy making; approaches to world order. 3 units. First semester. *MWF, 8*.

155. CONDUCT OF AMERICAN FOREIGN AFFAIRS. *Mr. Olson*. How foreign policy is made and carried out; the Constitutional framework; the Executive and Legislative functions; the role of the public; the idea of "the national interest"; contemporary policies and programs. 3 units. Second semester. *MWF, 8*.

161. CONSTITUTIONAL LAW. *Mr. Flournoy*. Nature and extent of constitutional power; separation of powers doctrine; federal-state relations; powers of Congress and the Presidency; citizenship and suffrage; guarantees of individual rights. 3 units. First semester. *MWF, 10*.

162. LAW AND SOCIETY. *Mr. Flournoy*. An analysis of the role of law and legal systems in modern society; major conceptions and theories of law; the utility of the judicial process in resolving conflicts between competing social interests. 3 units. Second semester. *MWF, 10*.

171. POLITICAL THEORY. *Mr. McDonald*. Major political thinkers of the Western heritage in the context of their times. Analysis of basic political values and their implementation. 3 units. First semester. *TTh, 2:40-3:55*.

172. AMERICAN POLITICAL THOUGHT. *Staff*. The main currents of American political thought from colonial times to the present. Applications in the light of contemporary political problems. 3 units. Second semester. *TTh, 2:40-3:55*.

184. PROBLEMS IN PUBLIC POLICY. *Mr. Bruce*. An examination of the role of chief executives, legislatures, parties, pressure groups and mass media in the making of public policy, combined with analysis of selected issues of current import. An advanced course in American government conducted as a pro-seminar. Open to non-majors by permission. 3 units. Second semester. *TTh, 2:40-3:55*.

186. SEMINAR IN INTERNATIONAL RELATIONS. *Mr. Olson*. Integration of historical, economic and political aspects of the field, with emphasis upon theory. Open to non-concentrators by permission. 3 units. Second semester. *M, 2:15-4:00*, and arranged.

191, 192. READINGS AND RESEARCH IN GOVERNMENT. *Staff*. Open to students capable of independent study. Individual programs must be approved in advance. 2 or 3 units. Arranged.

193, 194. READINGS AND RESEARCH IN INTERNATIONAL RELATIONS. *Staff*. Designed for advanced students, particularly in International Relations. Directed studies and periodic individual consultations with instructor. 2 or 3 units. Arranged.

HONORS STUDY

Students of marked capacity are invited to arrange with the Department for enrollment in programs of independent study culminating in the presentation of a dissertation on some subject of special interest and significance. One-half of the minimum requirement of 12 units may be met by Government 171 and 184.

STATISTICS FOR SOCIAL SCIENTISTS. For description see Economics 57.

ELEMENTARY ACCOUNTING. For description see Economics 71.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

ADMINISTRATIVE ORGANIZATION. *Mr. Benson*. 3 units. Second semester.

BUSINESS LAW. *Mr. Fick*. 3 units. Second semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the consent of the instructor.

210. TOPICS IN THE HISTORY OF POLITICAL THEORY. *Mr. McDonald*. 4 units. First semester.

220. LAW AND PUBLIC POLICY. *Mr. Jordan*. 4 units. Second semester.

231. POLITICS AND LEGISLATION. *Mr. Flournoy*. 4 units. Second semester.

240. ADMINISTRATIVE ORGANIZATION AND MANAGEMENT. *Mr. Goodall*. 4 units. First semester.

251. INTERNATIONAL POLITICS: THEORY. *Mr. Olson*. 4 units. First semester.

THE WASHINGTON SEMESTER

POMONA IS ONE among a number of colleges which have been invited by The American University to participate in its Washington Semester program whereby a limited group of undergraduate students are afforded an opportunity for special study of the governmental process in the national capital. The College has been allotted a quota of four students annually, the choice among applicants being made by a Faculty Selection Committee. Preference is given to juniors. Under a cooperative agreement tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D.C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government who serves as local representative.

INTERNATIONAL RELATIONS

The concentration in International Relations is governed by a faculty committee representing the several departments offering courses required for the concentration.

Requirements and Recommendations for the Concentration:

Thirty units of upper division work are to be taken from the offerings listed below. Within this list, while some electives are allowed, a number of courses are specifically required, including six units dealing with one region of the world. Lower Division prerequisites for courses in the upper division should be met in the freshman and sophomore years.

Proficiency in at least one modern foreign language is required. This requirement is normally satisfied by taking and completing with the grade of C or better one of the following courses: French 81a-81b; Spanish 91a-91b; German 53a-53b, plus one semester of a third year course in German. In the case of Russian, Oriental, and other languages students are advised to consult with Mr. Young as to requirements. Wherever possible foreign language study should be undertaken in the freshman year, but in any event the second year language course must be successfully completed by the end of the junior year. Those majors with already strong experience in a language may be excused from taking courses after an oral and written examination administered by Professors Meyer or Young, or a member of the appropriate department; this examination must be passed no later than April 15 of the junior year.

A Senior Paper involving intensive research in some aspect of international relations of special interest to the concentrator is to be submitted by April 15 of the senior year. Concentrators are urged to make use of departmental reading courses in the fall of the senior year to do most of the reading and organizing of the paper. In order to encourage background reading in the summer, the Committee requires submission of a tentative title for the senior paper by the end of the junior year.

Under carefully defined conditions, the concentrator in International Relations may devote the junior year to study abroad. Consult Mr. Olson.

Honors Study in International Relations may be undertaken, preferably beginning in the junior year. Consult any member of the Committee on International Relations.

The comprehensive examination consists of two written examinations, and one oral examination before two members of the Committee. Some part of the written examination will be in the foreign language of the student's choice.

For specific descriptions of the courses listed below see respective departmental listings:

A. *Core courses:* (21 units)

Government	151	Fundamentals of International Relations
Economics	154	International Economics
Sociology	111	Problems of World Demography
Government	125	Comparative Political Systems
Economics	195	Comparative Economic Systems <i>or</i> Sociology 153, Comparative Social Movements <i>or</i> Government 126, Government and Politics of Russia and Eastern Europe
Government	155	Conduct of American Foreign Affairs
Government	186	Seminar in International Relations

B. *Regional courses:* (6 units required in any one region)*European Area*

Government 125, History 113ab, 117b, 118, 160.

Soviet Area

Economics 195; Government 126; History 114.

Latin-American Area

Spanish 111a, 111b.

Asian Area

Oriental Affairs 103ab, 105, 106, 111, 123, 140, 160; Philosophy 126.

Middle Eastern and African Areas

While Pomona does not at this time offer course work regarding these regions, a student may take up to six units of directed reading concerning Middle Eastern and/or African Affairs. Permission of the Committee and of the instructor is required.

C. *Electives* to complete the upper division requirement may be selected from among many offerings in the Associated Colleges. For complete list of acceptable courses consult Mr. Olson. The Committee especially recommends the following for concentrators:

Anthropology 108; History 113ab, 128b; Oriental Affairs 160.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Geography SS-118; International Finance SS-154; Latin-American Politics SS-174; Current Problems in American Foreign Policy SS-179.

AVAILABLE AT SCRIPPS COLLEGE

IV-140ab. RELIGIONS OF THE WORLD.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Asian Studies 214, Contemporary East Asia and Malaysia; 261, Political and Economic Development in South Asia; 264, Studies in Sino-European Cultural Relations. International Relations 250b, International Economics; 251a, International Politics: Theory and Practice; 253, History of American Foreign Policy; 254, Recent American Foreign Policy; 255, Soviet Foreign Relations. Comparative Government and Area Studies 262ab, Comparative Government and Administration. History 217, Islam in History.

History

General requirement: History 1, or its equivalent, is a prerequisite for all other courses in History. Except for History 1, either semester of year courses may be taken separately without special permission of the instructor. Qualified Sophomores may elect courses in the 100-150 range with the approval of the instructor.

Concentration requirements: Students planning to concentrate in History are required to take History 1, 51, 140, and 190 as well as a pro-seminar in History. They should also take Government 51 and 52 and Economics 51 and 52 during the Freshman and Sophomore years. During Junior and Senior years in addition to History 140, 190, and a pro-seminar, they must take at least 12 units of upper division courses in History, and at least 6 units of upper division courses in a related field such as Economics, Government, Literature, Philosophy, Religion, or Sociology. A knowledge of foreign languages is of great value to students in History, and all concentrators are urged to gain as much proficiency as possible in this direction. Students who have in mind advanced work in History should remember that most graduate schools require a reading knowledge of one foreign language for the M.A. and of two for the Ph.D. The courses taken in a program of concentration in History should be carefully selected, and the program as a whole should be planned in consultation with a member of the History Department. All concentrators in History will write three examinations of a comprehensive nature near the end of Senior year. One of these will be the same for all concentrators in History and will deal with the subject as a whole, its point of view and its method. In addition, each concentrator will select two from the following list of fields in which to be examined: Ancient History, Europe 312-1648; Europe since 1648; the United States; the Far East. The examinations are not designed with the expectation that students will have taken all courses offered by the Department in one or another field in order to pass that examination. Since the fields are broad, an equal degree of familiarity with all aspects is not required. It is the view of the Department that judiciously planned independent reading may well supplement or replace courses in preparation for part of the examinations.

The Department encourages qualified students to undertake programs of Honors Study. Information respecting such programs may be obtained from the Departmental Staff.

JOINT CONCENTRATION: PHILOSOPHY AND HISTORY. (See Philosophy.)

1a-1b. HISTORY OF WESTERN CIVILIZATION. *Staff*. A survey of political, religious, intellectual, and economic developments in Europe and their expanding influence. First semester: Ancient Greece to the end of the Middle Ages; second semester: Renaissance to the present. 3 units. *MWF*, 8, 9, 10; *TThS*, 8, 9.

2. ASIA AND EUROPE. *Mr. Ch'en*. A survey of Eastern contacts with and contributions to Western Civilization with emphasis upon the interdependence of cultures. May be taken concurrently with History 1a-b. 2 units. Second semester. *M*, 7:30-9:30.

51a, 51b. HISTORY OF THE ENGLISH SPEAKING PEOPLES. *Mr. Gleason* and *Mr. Kemble*. The political, economic, and cultural evolution of Great Britain, the British Empire, the United States, and the Dominions. 3 units. First semester: to 1815; second semester: 1815 to the present. 3 units. *MWF*, 11.

101. HISTORY OF GREECE. *Mr. Carroll*. A survey from the prehistoric age until the Roman conquest with special emphasis on the city-state and democracy. 3 units. Second semester. *MWF*, 9. (Offered in alternate years; given in 1958-59.)

102. HISTORY OF ROME. *Mr. Carroll*. The Republic and Empire from the founding of the city until the sixth century A.D. 3 units. Second semester. *MWF*, 9. (Offered in alternate years; omitted in 1958-59.)

103a, 103b. HISTORY OF THE MIDDLE AGES. *Mr. Learnihan*. A study of political, economic, intellectual, and religious developments and institutions during the transition from Mediterranean to European civilization. First semester: 312-1054; second semester: 1054-1300. 3 units. *TThS*, 9. (Offered in alternate years; omitted in 1958-59.)

104. FOUNDATIONS OF THE MODERN STATE. *Mrs. Davies*. Problems in the interrelations of political and economic institutions and thought in western Europe during the medieval and early modern periods, with special reference to England and France. 3 units. First semester. *MWF*, 9. (Omitted in 1958-59.)

106a, 106b. ENGLAND AND THE NORTHERN RENAISSANCE. *Mrs. Davies*, *Mr. Gleason*. The political, economic, intellectual, religious, and social development of northern Europe from the late fifteenth century to the middle of the seventeenth century, emphasizing England but relating it to contemporary events on the Continent. 3 units. *MWF*, 9. (Offered in alternate years; given in 1958-59.)

108. HISTORY OF THE RENAISSANCE AND REFORMATION. *Mr. Learnihan*. A study of the transition from Medieval to Modern civilization in Europe between 1300 and 1648. 3 units. Second semester. *MWF*, 9. (Offered in alternate years; omitted in 1958-59.)

109. ABSOLUTISM AND ENLIGHTENMENT IN EUROPE. *Mr. Poland*. An analysis of the social, economic, political, and cultural developments in Europe from 1648 to 1789 with France as a focal point. 3 units. First semester. *MWF*, 11.

110. FRENCH REVOLUTION AND EUROPEAN REACTION. *Mr. Poland*. Europe from 1789 to 1848 with special emphasis on the impact of France, and the role of the French Revolution in shaping contemporary civilization. 3 units. Second semester. *MWF*, 11.

112a, 112b. MODERN BRITAIN. *Mrs. Davies, Mr. Gleason*. The development of England, the British Empire and the Commonwealth from the middle of the seventeenth century to the present. 3 units. *MWF*, 9. (Offered in alternate years; omitted in 1958-59.)

113a, 113b. EUROPE SINCE 1848. *Mr. Meyer*. A study of the dominant trends of the 19th century, their phases of crisis and change, their relation to tensions within contemporary Western society. 3 units. *MWF*, 10.

114. HISTORY OF RUSSIA. *Mr. Poland*. A study of the growth of Russia, emphasizing the political, economic, social and intellectual development from Peter the Great to the outbreak of the Revolution, the course of the Revolution, and the development of Soviet society since 1921. This course may be followed by Government 126 to constitute a year's work in Russian history. 3 units. First semester. *TThS*, 8.

117a, 117b. INTELLECTUAL HISTORY OF EUROPE. *Mr. Learnihan*. A study of the formation of ideas and ideals significant in politics, religion and science from classical times to the present. 3 units. *TThS*, 9. (Offered in alternate years; given in 1958-59.)

118. MODERN ECONOMIC HISTORY. *Mrs. Davies*. Problems of economic development from the age of mercantilism to the present, with special reference to western Europe. 3 units. Second semester. *MWF*, 11.

120. THE WESTWARD MOVEMENT IN NORTH AMERICA. *Mr. Kemble*. A study of the migration of people, institutions, and ideas across the continent, from the establishment of the English colonies to the twentieth century. 3 units. First semester. *MWF*, 3:15. (Offered in alternate years; omitted in 1958-59.)

130. MODERN MARITIME AND NAVAL HISTORY. *Mr. Kemble*. A study of the development of sea power and oceanic commerce from the 15th century to the present. 3 units. Second semester. *MWF*, 2:15. (Offered in alternate years; given in 1958-59.)

142. COLONIAL AMERICA, 1607-1763. *Mr. Adair*. The political, economic, and intellectual history of the Thirteen British Colonies in North America. 3 units. First semester. *MWF*, 10.

143. THE AMERICAN NATION, 1763-1815. *Mr. Adair*. A study of the achievement of independence by the United States and the establishment of the republic. 3 units. Second semester. *MWF*, 10.

146. HISTORY OF CALIFORNIA. *Mr. Kemble*. The economic, cultural, and political development of the region from its discovery and colonization to the present. 3 units. First semester. *MWF*, 2:15. (Offered in alternate years; given in 1958-59.)

150. READING AND RESEARCH IN HISTORY. *Staff*. Individual programs of reading on significant historical topics or fields. Permission of the member of the department with whom the reading is to be done must be obtained prior to registration. May be repeated for credit. 2 to 4 units. Arranged.

157. REPRESENTATIVE HISTORICAL PERSONALITIES. *Mr. Learnihan*. A study of the parts played by a group of significant individuals in the unfolding of Western Civilization and their impact on historical change. 3 units. (Omitted in 1958-59.)

165. REPRESENTATIVE SOCIETIES. *Mr. Gleason*. 5th century Athens, 13th century France, 16th century England, 19th century New England. A course for Seniors designed to integrate the total program. 3 units. Second semester. *MWF, 1:15*.

For courses in Far Eastern History and Latin American and Spanish civilization see those listed under Oriental Affairs and Romance Languages.

The following courses are designed primarily for concentrators in History. Other students may be admitted with the permission of the instructor. It is intended to offer one pro-seminar in European and one in American History each year, but the subject studied will vary from time to time. Arrangements may be made for work of this type in Far Eastern and Latin American History at the Claremont Graduate School.

140. THE STUDY OF HISTORY. *Mr. Gleason, Miss Bruchholz*. An introduction to the methods, techniques, schools, and philosophies of history. 3 units. First semester. *MWF, 2:15*. Second semester. *TTh, 1:15-2:30*.

160. PRO-SEMINAR IN EUROPEAN HISTORY. *Miss Bruchholz*. 3 units. First semester. *TTh, 1:15-2:30*.

170. PRO-SEMINAR IN AMERICAN HISTORY. *Mr. Kemble*. 3 units. First semester. *MWF, 3:15*.

190. HISTORICAL PROBLEMS AND INTERPRETATION. *Staff*. Consideration of major historical developments and some of the most significant works in European and American history. 3 units. Second semester. Section A, *MWF, 2:15*. Section B, *TTh, 1:15-2:30*.

AVAILABLE AT SCRIPPS COLLEGE

III-54a. THE FEDERAL UNION. *Mr. White*. The development of American civilization to the Civil War. 3 units. First semester. *MWF, 10*.

III-54b. THE AMERICAN NATION. *Mr. White*. The development of American civilization since the Civil War. 3 units. Second semester. *MWF, 10*.

III-118a. THE EMERGENCE OF MODERN AMERICA, 1865-1914. *Mr. White*. 3 units. First semester. *MWF, 11*.

III-118b. THE AGE OF REFORM, 1914 TO THE PRESENT. *Mr. White*. 3 units. Second semester. *MWF, 11*.

III-129a. PROBLEMS IN EUROPEAN HISTORY: THE NINETEENTH CENTURY. *Mrs. Keddle*. 3 units. First semester. *TThS*, 10.

III-129b. PROBLEMS IN EUROPEAN HISTORY: THE TWENTIETH CENTURY. *Mrs. Keddle*. 3 units. Second semester. *TThS*, 10.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

SS-151. AMERICAN ECONOMIC INSTITUTIONS. *Mr. Smith*. 3 units. First and second semester.

SS-178. AMERICAN FOREIGN POLICY. *Mr. Gould*. 3 units. First semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of offerings designed primarily for graduate students are open to qualified seniors by permission of the chairman of the department and the instructor. For specific information consult the chairman of the department or the catalogue of the Claremont Graduate School.

Mathematics

Requirements for concentration: The basic courses in Mathematics are either (i) Mathematics 1a, b; 65a, b, and 125; or (ii) Mathematics 50a, b, and 150a, b. In addition to these, the following courses are required: Mathematics 118, 119, 151a, b, and at least three more upper division units in the Department of Mathematics. An additional six units must be taken in upper division mathematics or selected from among Physics 113a, b, 191a, b, and Astronomy 156a, b.

Mathematics 1a, b is normally prerequisite for all other work in the Department. However, students who have had trigonometry in high school may take an examination in mathematics on the Saturday preceding registration, and those who make a sufficiently high grade will be permitted to enroll in Mathematics 50a if they so desire.

1a, 1b. INTRODUCTION TO COLLEGE MATHEMATICS. *Staff*. While this course prepares students for work in the calculus, it is at the same time comprehensive enough to provide in itself a general mathematical background. It includes college algebra, trigonometry, and an introduction to analytic geometry and calculus. 3 units. *MWF*, 10, 11; *TThS*, 9, 10.

50a, 50b. ANALYTIC GEOMETRY AND CALCULUS. *Mr. Tolsted*, *Mr. Hamilton*. The standard integrated course in analytic geometry and calculus. Credit will not be given for both Mathematics 1a, b, and 50a, b. 3 units. *MWF*, 8, 11.

65a, 65b. DIFFERENTIAL AND INTEGRAL CALCULUS. *Staff*. This is a standard course in the theory and applications of the calculus. Prerequisite: Mathematics 1a, b. Credit will not be given for both Mathematics 65 and 50. 3 units. *MWF*, 8, 9; *TThS*, 8.

102. INTRODUCTION TO APPLIED MATHEMATICS. *Mr. Hamilton*. Prerequisite: Mathematics 65a, b. 3 units. Second semester. *MWF, 11*. (Omitted in 1958-59.)

118. HIGHER ALGEBRA. *Mr. Jaeger*. Permutations, combinations, probability binomial and multinomial theorems, summation of series, continued fractions, and other algebraic topics. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. First semester. *MWF, 8*.

119. THEORY OF EQUATIONS. *Mr. Jaeger*. The theory and solution of algebraic and transcendental equations; determinants and matrices. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. Second semester. *MWF, 8*.

125. INTERMEDIATE CALCULUS. *Mr. Cooke*. Elements of solid analytic geometry; infinite series, partial differentiation, multiple integration. Applications. Prerequisite: Mathematics 65a, b. Credit will not be given for both Mathematics 125 and 150. 3 units. First semester. *MWF, 9*.

150a, 150b. INTERMEDIATE CALCULUS AND VECTOR ANALYSIS. *Mr. Hamilton, Mr. Tolsted*. A continuation of Mathematics 50a, b. This course combines the material in Mathematics 125 and vector analysis. Prerequisite: Mathematics 50a, b. 3 units. *MWF, 9, 11*.

151a, 151b. DIFFERENTIAL EQUATIONS. *Mr. Cooke, Mr. Hamilton*. A general course in theory and applications. Prerequisite: Mathematics 65a, b. 3 units. *MWF, 10; TThS, 10*.

152a, 152b. ADVANCED CALCULUS. *Mr. Tolsted*. Introduction to logic; limits, sequences, continuity, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, and multiple integrals. Prerequisite: Mathematics 125 or Mathematics 150. 3 units. *TThS, 9*.

194. MATHEMATICAL STATISTICS. *Mr. Hamilton*. The mathematical bases of statistical theories and methods, with applications from various fields. Prerequisite: Mathematics 65a, b. 3 units. First semester. *MWF, 9*. (Omitted in 1958-59.)

195a, 195b. ACTUARIAL MATHEMATICS. *Mr. Jaeger*. Finite differences, interpolation formulas, approximations, summations, and probability. Prerequisite: Mathematics 65a, b and 118. 3 units. *TThS, 8*. (Omitted in 1958-59.)

197. NUMBER THEORY. *Mr. Jaeger*. Properties of integers, linear and quadratic congruences, and algebraic numbers. Prerequisite: Mathematics 65a, b. 3 units. First semester. *MWF, 10*.

198a, 198b. SELECTED TOPICS IN HIGHER MATHEMATICS. *Staff*. Special work or reading not included in the preceding is available in this course to students of proved ability. Prerequisite: Departmental approval. 3 units. Arranged.

MATHEMATICAL PHYSICS. For description, see Physics 191a, 191b.

PRE-ENGINEERING

A student may take from one to four units in each of the following courses. All courses numbered above 100 require instructor's approval for enrollment. Study and drawing period *M, T, W, Th, or F, 1:15-4 p.m.* Lecture arranged.

7. **ENGINEERING DRAWING.** *Mr. Grimm.* A basic engineering drawing course, including lettering, projection, visualization, and working drawings.

40. **DESCRIPTIVE GEOMETRY.** *Mr. Grimm.* The theory and principles of projection, including points, lines, plane sections, and development of surfaces. Prerequisite: Two units of engineering drawing.

101. **ARCHITECTURE.** *Mr. Grimm.* Basic work in architectural design including the development of a complete set of working drawings.

102. **MECHANISMS.** *Mr. Grimm.* Practice in the graphical solution of machine mechanisms. (Offered in alternate years; offered 1958-59.)

103. **TOPOGRAPHY.** *Mr. Grimm.* Practice in topographic mapping and model construction. (Offered in alternate years; omitted in 1958-59.)

AVAILABLE AT CLAREMONT SUMMER SESSION

60. **SURVEYING.** *Mr. Grimm.* A basic surveying course. 3 units.

Military Science

Pomona College, in conjunction with Claremont Men's College, maintains a General Military Science Unit, Senior Division, of the Reserve Officers' Training Corps, established under the National Defense Act for the purpose of training students to become officers of the Army of the United States. The general purpose of the ROTC is to provide officers for the United States Army Reserve; it also now constitutes the principal source of procurement of junior officers for the Regular Army. Under the provisions of the Reserve Forces Act of 1955 all qualified ROTC graduates will be commissioned in the appropriate reserve component. Graduates of the program who enter active military service for two years will acquire an additional four-year obligation in the Reserve (total of six years). Those who are excess to Active Force requirements will be given six months of active duty for training, following which they will remain in the Ready Reserve until the eighth anniversary of the receipt of their commissions. Students who demonstrate special aptitude or proficiency will be offered an opportunity for an appointment in the Regular Army through the Distinguished Military Graduate Program. For the past several years Regular Marine Corps commissions have been available to the ROTC graduates of this unit.

Army Flight Training is available to selected seniors in the ROTC program. Details may be secured from the Department.

The General Military Science ROTC program consists of subjects and material general in nature and scope so that the Department of the Army may appoint second lieutenants in the combat, administrative, and technical services of the Army.

The courses include both classroom and out-of-doors instruction.

The instructors in the department are officers of the United States Army assigned for duty at the college by the Department of the Army. The most modern weapons, equipment and instructional material are furnished to give the students practical experience.

The four-year program is divided into the Basic Course and the Advanced Course. Enrollment in the Basic Course is on a voluntary basis. Enrollment in the Advanced Course is on a selective basis. After a student has enrolled in either course, the completion of the second year of that particular course becomes a prerequisite for graduation.

Normally, the four-year program for an incoming freshman without prior military service or prior ROTC training is:

Freshman Year	1st year Basic ROTC Course	MS I
Sophomore Year	2nd year Basic ROTC Course	MS II
Junior Year	1st year Advanced ROTC Course	MS III
Summer Vacation	ROTC Summer Camp (6 weeks)	
Senior Year	2nd year Advanced ROTC Course	MS IV
Graduation	Appointment as 2nd Lieutenant United States Army Reserve	

The Basic Course is open to all physically fit male students who are United States citizens. ROTC enrollment does not interfere with participation in sports by students nor in other college activities. Uniforms, equipment and texts for the courses are issued to the students without charge.

Previous military service furnishes a basis for credit for Basic Course instruction according to the individual's length of service, type of training, and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited to selected members who have completed the Basic Course, or have received equivalent credit. A student entering the Advanced Course must sign an agreement with the United States Government that he will devote five (5) class hours per week to Military Science during the academic year, that he will attend an ROTC Summer Camp of six (6) weeks duration between his MS III and MS IV courses, and that he will accept an appointment as a second lieutenant in the United States Army Reserve, if tendered. In consideration of this agreement, students receive cash allowances from the Government equivalent to a scholarship of about \$640.00 for the two (2) year period of the Advanced Course.

After the completion of one academic semester, regularly enrolled students are given an opportunity to sign a "deferment agreement." They may then be deferred from induction and service under the UMT&S Act until com-

pletion of both their ROTC and academic courses provided they remain in good standing. A college freshman who is eligible for MS II or III because of previous training, if selected for enrollment and authorized a period of nonattendance, may be deferred during that period of nonattendance.

1A-1b. MILITARY SCIENCE COURSE I (Basic Course). *Staff.* American Military History; Organization of the Army and ROTC; Individual Weapons and Marksmanship; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh*, 8, 9 or 10; drill *M*, 1:15-2:05.

52a-52b. MILITARY SCIENCE COURSE II (Basic Course). *Staff.* Map and Aerial Photograph Reading; Role of the Army in National Defense; Crew-served Weapons and Gunnery; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh*, 8, 9 or 10; drill *M*, 1:15-2:05.

103a-103b. MILITARY SCIENCE COURSE III (Advanced Course). *Staff.* Organization. Function and Mission of the Arms and Services; Leadership; Military Teaching Methods; Military Sanitation and First Aid; Rifle Marksmanship, Camouflage and Field Fortifications; Small Unit Tactics; Communications; and Exercise of Command (Drill). 3 units. Class *MWF*, 8 or 9; *F*, 11 or 1:15; drill *M*, 1:15-2:05.

MILITARY SCIENCE ROTC SUMMER CAMP (Advanced Course). *Camp Staff.* Tactics and techniques; marksmanship and weapons training; marches and bivouacs; drills and parades; physical training and athletics. Six weeks, during the summer between the third and fourth year. Normally conducted at Ft. Lewis, Washington.

154a-154b. MILITARY SCIENCE COURSE IV (Advanced Course). *Staff.* Supply and Evacuation; Motor Transportation; Troop Movements; Military Intelligence; Estimate of the Situation and Combat Orders; Command and Staff; Training Management; The Military Team; Military Administration; Military Justice; Role of the United States in World Affairs; Leadership; Officer Indoctrination; and Exercise of Command (Drill). 3 units. Class *MWF*, 8 or 9; *F*, 11 or 1:15; drill *M*, 1:15-2:05.

Music

The Department of Music offers instruction and opportunity for musical performance both to concentrators in the field and to non-concentrators.

Courses open to non-concentrators: Music Appreciation (53), Theory (1, 2, 4), History and Literature (120, 121, 122, 123), Applied Music—vocal and instrumental. Group activities open to all students include College Choir (57), Orchestra (58), Band (59), Chamber Music (60), and the Glee Clubs. Qualified students may be admitted by special action of the Department to any course in music. Students likely later to concentrate in music are advised to take Elementary Theory (Music 1 and 2) immediately in order to avoid crowding their senior year programs.

Requirements for concentration: The concentration program is designed both for the pre-professional musician preparing for a career as teacher or performer and for the student who may have other vocational plans but wishes to major in music as an undergraduate. All concentrators are strongly urged to acquire a reading knowledge of at least one foreign language.

The following courses are required of all students concentrating in music: Elementary Theory (1), Elementary Ear Training, Sight Singing, and Keyboard Harmony (2), Intermediate Theory (55), Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56), Advanced Theory (107), and the two-year sequence in the History of Musical Style (120, 121, 122, 123).

In addition to the required courses listed above, one of the following areas of concentration is required:

Applied Music: Music 111, 161, Senior Recital, and at least 4 units of Group Activities.

Composition: Orchestration (113), Free Composition (158), and at least 4 units of Group Activities.

General Music: A choice of any of the offerings of the Department that will include a minimum of 4 units of Applied Music, 8 units of Group Activities, and 8 units of Upper Division credit, at least 4 of which shall be in course work.

Secondary School Music: Choral Conducting (117), Instrumental Conducting (118), Rudiments in the Playing of Orchestral and Band Instruments (119), Orchestration (113), 4 units each in piano and voice (or equivalent), and work in Choir, Band, or Orchestra. In conjunction with the Claremont Graduate School, Pomona College offers a five-year program in which music majors who intend to teach in the public schools may meet the requirements for the General Secondary Credential. Such students will normally elect Secondary School Music as their area of undergraduate concentration. All students preparing for the teaching credential should consult with the Claremont Graduate School about the state requirements as early as possible.

Transfer students. Students transferring from other institutions as juniors should take Elementary Theory (1, 2) or its equivalent before coming to Pomona. They will be given a theory placement test to determine their proper course assignment and their transfer credit from previous college theory study.

THEORY, HISTORY, AND LITERATURE

1a-1b. **ELEMENTARY THEORY.** *Mrs. Briggs, Mr. Loucks.* Diatonic harmony and simple, free counterpoint with emphasis on original work in small forms. Prerequisite: ability to read music and play an instrument. Must be accompanied by 2a-2b. 3 units. *MWF, 11 or 1:15.*

2a-2b. **ELEMENTARY EAR TRAINING, SIGHT SINGING, AND KEYBOARD HARMONY.** *Mrs. Briggs, Mr. Loucks.* Practical application of the material of 1a-1b. 2 hours, 1 unit. *MW, 10; TTh, 10.*

4a-4b. MATERIALS OF MUSIC. *Mr. Loucks*. Basic theory for the layman: melody, harmony, counterpoint, rhythm, form. Study of significant styles. Ability to read music important. 3 units. *MWF, 10*.

53a-53b. INTRODUCTION TO MUSIC. *Mr. Dayton*. A survey of the principal periods in music history, with detailed study of representative works drawn from the symphonic, operatic, concerto, and chamber music literature. No previous musical experience required. 2 units. *MW, 2:15 or 3:15*.

55a-55b. INTERMEDIATE THEORY. *Mr. Kohn*. Advanced harmony and further work in counterpoint. Original work in small forms, with emphasis on the styles of Bach, Mozart, Beethoven, and the Romanticists. Must be accompanied by 56a-56b. Prerequisite: Music 1 and 2. 3 units. *MWF, 11*.

56a-56b. INTERMEDIATE EAR TRAINING, SIGHT SINGING, AND KEYBOARD HARMONY. *Mr. Kohn*. Practical application of the material of 55a-55b. 2 hours, 1 unit. *M, 2:15; F, 1:15*.

60a, 60b. CHAMBER MUSIC. *Mr. Fiske*. A study of important chamber music literature from the 17th century to the present day through performance and analysis. Course also includes historical study of the works performed. Open only to advanced instrumentalists able to participate in performance. Permission of instructor required. The course may be repeated for credit. 2 units. *M, 1:15-3:05, and arranged*.

107a-107b. ADVANCED THEORY. *Mr. Loucks*. Two and three part writing in contrapuntal forms: experience in free composition. Prerequisite: Music 55 and 56. 3 units. *MWF, 8*.

113a-113b. ORCHESTRATION AND INSTRUMENTATION. *Mr. Blanchard*. Scoring for orchestra, band, and vocal groups. Opportunity for public performance of outstanding work. Prerequisite: Music 55 and 56. 3 units. *Th, 2:15-4:05; third hour arranged*.

117. CHORAL CONDUCTING. *Mr. Russell*. Technique of conducting, repertoire, score analysis, rehearsal planning, chorus building. Prerequisite, choral experience and demonstration of sufficient ability in sight-singing and piano. Permission of instructor required. 2 units. First semester. *T, 2:15-4:05*.

118. INSTRUMENTAL CONDUCTING. *Mr. Fiske*. A course specifically designed for students working for the State Music Credential. Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire. Permission of instructor required. 2 units. Second semester. *F, 1:15-3:05*.

119a-119b. RUDIMENTS IN THE PLAYING OF ORCHESTRAL AND BAND INSTRUMENTS. *Mr. Blanchard, Mr. Fiske*. A course designed to give the student a knowledge of the fundamentals of wind and string instruments through study and practice. First semester: winds; second semester: strings. 2 units. *TTh, 1:15*.

The following four courses (120, 121, 122, 123) comprise a two-year sequence in the history of musical style. Study by formal analysis, class performance, and guided listening, of a repertoire selected to exemplify the respective periods stylistically and chronologically, with supplementary readings in the basic works of history and reference. Permission of the instructor required for non-concentrators. Concentrators must take the sequence in order, one course per semester.

120. MUSIC OF THE MIDDLE AGES AND THE RENAISSANCE. *Mr. Russell*. 3 units. First semester. *MWF*, 9.

121. MUSIC OF THE BAROQUE AND PRE-CLASSICAL PERIODS. *Mr. Kohn*. 3 units. Second semester. *MWF*, 9.

122. MUSIC OF THE CLASSICAL PERIOD AND THE 19TH CENTURY. *Mr. Fiske*. 3 units. First semester. *TThS*, 9.

123. MUSIC OF THE 20TH CENTURY. *Mr. Dayton*. 3 units. Second semester. *TThS*, 9.

158a-158b. FREE COMPOSITION. *Mr. Kohn*. Studies in the elements of contemporary techniques, and original work intended to develop the student's sense of musical structure and style. Permission of the instructor required. 3 units. *W*, 1:15-3:05; third hour arranged.

191a-191b. PROGRAM PLANNING AND INTERPRETATION. *Staff*. Planning and performance of the Senior Recital. Open only to music majors who have passed the upper division qualifying examination in applied music. 4 units (2 units in semester preceding recital and 2 units in semester of recital, or 4 units in recital semester only). Credit granted only upon completion of recital. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-69. NINETEENTH CENTURY MUSIC. *Mr. Pattison*. Year course. *TTh*, 1:15-2:45.

II-170. CONTEMPORARY MUSIC. *Mr. Pattison*. Year course. *TTh*, 3:15-4:45.

GRADUATE STUDY IN MUSIC

The Claremont Graduate School offers work leading to the Master of Arts degree with majors in Applied Music, Music History, Composition, and Music Education. Courses are also given which fulfill the California requirements for a general secondary credential with a major in Music.

GROUP ACTIVITIES

Open to all students in the college, subject to the following regulations: (1) permission of the instructor is required for Orchestra (58) and Band (59), (2) not more than two group activities may be taken simultaneously for credit, and (3) a total of not more than 16 units of credit for group activities may be counted toward the Bachelor of Arts degree.

57a, 57b. **COLLEGE CHOIR.** *Mr. Russell.* The study of classic and contemporary choral music through rehearsals leading to public performance. All students are eligible for the Choir, but continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced during the opening weeks of the semester. New members admitted in first semester only. Fee to cover cost of music, \$2.00. 1 unit. May be repeated for credit. *MWThF, 12:30-1:05; T, 11:30-12:20.* (Women do not meet on *Th*; men do not meet on *M*.)

58a, 58b. **ORCHESTRA.** *Mr. Fiske.* A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional sectional rehearsals at option of director. The course may be repeated for credit. 1 unit. *TTh, 4:15.*

59a, 59b. **BAND.** *Mr. Russell.* Concert and field work, brass ensemble work, joint performance with choral groups, opportunity for performance of student compositions and arrangements. Two rehearsals weekly. 1 unit. May be repeated for credit. *MW, 4:15.*

MEN'S AND WOMEN'S GLEE CLUBS. *Mr. Russell.* The Glee Clubs offer opportunity for performance in a small extra-curricular ensemble, both on and off campus. New members admitted by tryout only, at the opening of the college year. All students are eligible. Normal schedule: two rehearsals weekly. No credit.

APPLIED MUSIC

Study in Applied Music is open to all students. It may be taken either with credit or without, subject to the following provisions:

General. All students must pass qualifying examinations to establish eligibility for credit. Credit of 1 unit per semester is given for one private lesson weekly, 2 units per semester for two private lessons weekly. All private lessons are one-half hour in length. No credit is given for elementary study. No credit is given for work in Applied Music taken elsewhere.

Non-concentrators. Non-concentrators become eligible for a maximum of 4 units of Lower Division credit by passing the Lower Division qualifying examination. For more than 4 units of Lower Division credit they must take Elementary Theory (1) and Elementary Ear Training, Sight Singing, and Keyboard Harmony (2), or Materials of Music (4), either preceding or accompanying the additional work in Applied Music. Intermediate Theory (55) and Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56) must precede or accompany all work for Upper Division credit.

Concentrators. Music 1 and 2 must precede or accompany all credit study by concentrators in music. Music 55 and 56 must precede or accompany all work for Upper Division credit. Concentrators in Applied Music are required to take two lessons per week in their major subject and to appear frequently in recitals.

Qualifying examinations. Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11, 61), and Upper Division (Music 111, 161). The passing of a qualifying examination is required for entrance into either category. These examinations are normally given at the beginning of each semester. Arrangements for the examination should be made through the Applied Music instructor. Printed information concerning the qualifying examinations may be obtained at the Music Department office.

Limit of credit toward degree. A total of not more than 16 units of Applied Music may be counted toward the Bachelor of Arts degree, normally to comprise 8 units in Lower Division and 8 in Upper Division. Students not sufficiently advanced to qualify for Upper Division credit may count a total of not more than 12 units of Lower Division credit. All Applied Music study, whether for credit or not, is recorded on the student's college transcript.

- 11. APPLIED MUSIC, Freshman level.
- 61. APPLIED MUSIC, Sophomore level.
- 111. APPLIED MUSIC, Junior level.
- 161. APPLIED MUSIC, Senior level.

VOICE, *Mrs. Briggs, Mr. Pilon.*

ORGAN, *Mr. Blanchard.*

PIANO, *Mr. Dayton, Mr. Kohn, Mrs. Briggs, Mr. Pierce.*

VIOLIN AND VIOLA, *Mr. Fiske.*

VIOLONCELLO, *Miss Jean.*

HARP, *Mrs. Remsen.*

FLUTE, *Mr. Stevens.*

OBOE, *Mrs. Geller.*

CLARINET, *Mr. Bloch.*

FRENCH HORN, *Mr. Pyle.*

TRUMPET, TROMBONE, *Mr. Tyler.*

Fees for private instruction and practice rooms are listed on page 36.

Oriental Affairs

A student concentrating in Oriental Affairs must take Oriental Affairs 51 and 52a-b. Twenty-four hours of upper division work are required. These hours should be selected from the following courses: Oriental Affairs 103, 104, 105, 106, 111, 123, 140, 160, 191; Art 117a-b; Philosophy 126.

51. THE CULTURAL LEGACIES OF EAST ASIA. *Mr. Ch'en.* A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia. 3 units. First semester. *MWF, 10.*

52a-52b. INTRODUCTION TO THE CHINESE LANGUAGE. *Mr. Ch'en.* A course for beginners in the Chinese language, with emphasis on the analysis of written characters, translation and reading of simple texts. 3 units. Arranged.

103a, 103b. HISTORY OF CHINA. *Mr. Ch'en*. General survey of China's cultural history. The complexities of the problem of present day China in the light of her ancient cultural heritage. 3 units. *MWF*, 9.

104. READINGS IN ASIAN LITERATURE. *Mr. Ch'en*. A study of outstanding Asian literary works in English translation with the aim of a deeper appreciation of Oriental life and thought. 3 units. Second semester. *MWF*, 10.

105. CONTEMPORARY EASTERN ASIA. *Mr. Ch'en*. Introduction to the historical background and current problems of China, Japan, Korea, and Southeast Asia. 3 units. First semester. *MWF*, 9. (Omitted in 1958-59.)

106. CONTEMPORARY SOUTHERN ASIA. *Mr. Goodall*. Introduction to the historical background and current problems of India, Pakistan, Ceylon, Burma, and the Himalayan states. 3 units. Second semester. *MWF*, 11.

111. HISTORY OF JAPAN AND KOREA. *Mr. Ch'en*. The evolution of Japanese and Korean cultural, social, economic, and political institutions since prehistoric times. 3 units. First semester. *MWF*, 9. (Omitted in 1958-59.)

123. EASTERN ASIA IN THE NINETEENTH CENTURY. *Staff*. Traditional patterns of life and institutions in China and Japan, and to a lesser extent under the old regimes in Korea, Siberia, and Southeast Asia. The impact of Western imperialism and civilization upon those countries. 3 units. First semester. (Omitted in 1958-59.)

140a, 140b. HISTORY OF CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT. *Mr. Ch'en*. A rapid survey of the religious, intellectual, literary, and artistic relations and interchanges between China and the Western World from Greco-Roman times to the middle of the nineteenth century. 3 units. *MWF*, 10. (Omitted in 1958-59.)

191. TOPICS IN EAST ASIAN CULTURAL HISTORY. *Mr. Ch'en*. Lectures and discussions on topics chosen from the following: literature, drama, art theory and evolution of ideas. 3 units. First semester. *W*, 7:30-9:30 *p.m.* (Omitted 1958-59.)

195. READINGS IN ORIENTAL AFFAIRS. *Staff*. Prerequisite: one course in Oriental Affairs and permission of instructor. 2 or 3 units. Each semester. May be repeated for credit. Arranged.

EUROPE AND ASIA. For description see History 2.

ORIENTAL PHILOSOPHY. For description see Philosophy 126.

ART OF THE FAR EAST. For description see Art 117a, 117b.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

251a, 251b. ADVANCED CHINESE.

Philosophy

Distribution Requirement: Either Philosophy 50 and one course from among Philosophy 51, 52, 53, 120, 122, 124; or two courses from among the Philosophy 110-114 series.

Concentration: Twenty-four units of upper division work, including four courses from the Philosophy 110-114 series. Philosophy 51 is strongly recommended. Those intending to do graduate work in philosophy should have a reading knowledge of French and German.

Honors Study: Information may be obtained from the Department.

Joint Concentrations:

Philosophy and Classics. Classics 51 or 57 or equivalent (two or more years of Greek or of Latin at secondary school level) and Philosophy 50 are the lower division requirements. Students electing the concentration must choose from each of the groups below at least the number of units specified.

Group I (15 units): Classics 101, I-101, I-102, I-104, I-105, I-108, 182.

Group II (15 units): Three courses from among the Philosophy 110-114 series, and two additional upper division courses in Philosophy.

Philosophy and History. History 1 and 51 and Philosophy 50 are the lower division requirements. Students electing the joint concentration must choose from each of the groups below at least the number of units specified.

Group I (9 units): History 140, 190, and one pro-seminar.

Group II (6 units): History 101 or 102 or 103a or 103b or 107a or 108.

Group III (6 units): History 107b or 109 or 110 or 113a or 113b.

Group IV (15 units): Four courses from the Philosophy 110-114 series, and one additional upper division course in Philosophy.

The comprehensive examination will consist of three parts: the general History examination, one subject field in History selected by the student, and the general History of Philosophy examination, which will take into consideration the additional upper division work done in Philosophy.

Philosophy and Literature. English 50 and Philosophy 50 are the lower division requirements. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I (6 units): English 153 or 154 or 155 or 156.

Group II (9 units): English 102 or 103 or 104 or 106 or 107 or 108.

Group III (6 units): English 105 or 115 or 160 or 162 or 163.

Group IV (15 units): Four courses from the Philosophy 110-114 series, and one additional upper division course in Philosophy.

Students in the joint concentration will be examined in both fields in the comprehensive examination at the end of the senior year.

Philosophy and Religion. Religion 1, 2 and 65 and Philosophy 50 are the lower division requirements. Students electing the joint concentration must choose from each of the groups below at least the number of units specified.

Group I (15 units): Religion 101, 103, 104, 160, and one additional upper division course in Religion.

Group II (15 units): Four courses from among the Philosophy 110-114 series, and one additional upper division course in Philosophy.

50. INTRODUCTION TO THE PROBLEMS OF PHILOSOPHY. *Staff.* Consideration of the function and method of philosophy, and typical problems in ethics, logic, theory of knowledge, philosophy of religion and metaphysics. 3 units. First semester. *TThS*, 8; *MWF*, 9; *MWF*, 10. Second semester. *MWF*, 8.

51. INTRODUCTION TO LOGIC. *Mr. Iredell.* The elements of deductive and inductive reasoning with special emphasis upon scientific hypotheses, probability, and fallacies. 3 units. Second semester. *TThS*, 8.

52. INTRODUCTION TO ETHICS. *Mr. Fogelin.* An examination of the main types of ethical theory, in terms of their ability to illuminate and aid in the solution of concrete moral problems. 3 units. Second semester. *MWF*, 10.

53. PHILOSOPHY, CULTURE AND LANGUAGE. *Mr. Beckner.* The impact of the physical and social sciences on the traditional Western ethos is examined, and a reconstruction is attempted, based on a study of the nature of language and its relation to thought and reality. 3 units. Second semester. *MWF*, 9.

History of Philosophy series: Five semester courses, normally taken in sequence, designed to present the history of western philosophy through primary source readings, lectures and discussion.

110. CLASSICAL PHILOSOPHY. *Mr. Sontag.* From the beginnings of philosophic thought to the start of the Christian period, including the Pre-Socratics, Plato, Aristotle, the Stoics and the Epicureans. 3 units. First semester. *MWF*, 11.

111. MEDIEVAL PHILOSOPHY. *Mr. Sontag.* From St. Augustine to Duns Scotus, including the Pseudo-Dionysius, Scotus Erigena, Anselm, Bonaventure and Thomas Aquinas. 3 units. Second semester. *MWF*, 9.

112. MODERN PHILOSOPHY. *Mr. Fogelin.* From the Renaissance to Kant, including Bacon, Descartes, Leibniz, Spinoza, Locke, Berkeley and Hume. 3 units. Second semester. *MWF*, 11.

113. THE NINETEENTH CENTURY. *Mr. Fogelin.* From Kant to Nietzsche, including Hegel, Schopenhauer, Mill, Comte, and Marx. 3 units. First semester. *TTh*, 1:15.

114. CONTEMPORARY PHILOSOPHY. *Mr. Beckner.* A study of the philosophic thought of the 20th Century, with special reference to the dominant ideas of the civilization of today. 3 units. First semester. *MWF*, 10.

116. SYMBOLIC LOGIC. *Mr. Fogelin*. Introduction to modern deductive logic. A formal system of logic is presented, the paradoxes of logic and the application of logic to other fields are discussed. 3 units. First semester. *TThS*, 9.

118. METAPHYSICS AND ONTOLOGY. *Mr. Sontag*. A speculative inquiry into the fundamental questions of existence, with special attention to being and non-being, infinite and finite, substance, unity, and time. 3 units. Second semester. *TThS*, 9. (Omitted in 1958-59.)

120. THEORY OF KNOWLEDGE. *Mr. Fogelin*. A critical study of the nature of empirical knowledge, logic, and mathematics, including an examination of the modern methods of logical and semantic analysis. 3 units. Second semester. *TThS*, 9.

122. PHILOSOPHY AND THE SOCIAL SCIENCES. *Mr. Jones*. A critical study of the basic metaphysical and epistemological presuppositions of the social sciences, including history. Among other matters considered are the function of theory in these fields, the nature of evidence, and the problem of "objectivity." 3 units. (Omitted 1958-59.)

124. PHILOSOPHY OF RELIGION. *Mr. Sontag*. A study of the relationship of philosophy, theology, and religion, including the questions of God's existence, God's nature, the nature of man and the claims of Christianity. 3 units. Second semester. *TThS*, 10.

126. ORIENTAL PHILOSOPHY. *Mr. Iredell*. A study of some of the important thinkers and schools of oriental philosophy, and a comparison of oriental and western philosophical views and cultural ideals. 3 units. First semester. *MWF*, 8.

132. POLITICAL PHILOSOPHY. *Mr. Jones*. A study of the state, the individual, society, freedom, law, rights, and duty, emphasizing applications to currently competing systems. Second semester. *MWF*, 9. (Omitted in 1958-59.)

134. VALUE THEORY. *Mr. Beckner*. An examination of classical and contemporary theories of value, including Utilitarianism, Kantianism, Intuitionism and Instrumentalism. The questions of the logical status of value judgments, and the place of reason in moral and aesthetic appraisal, will be emphasized. 3 units. (Omitted in 1958-59.)

136. THE PHILOSOPHY OF PLATO. *Mr. Sontag*. A study of the dialogues of Plato, uncovering the complete Platonic metaphysics, theory of knowledge and ethics. 3 units. (Omitted in 1958-59.)

140. KIERKEGAARD AND EXISTENTIALISM. *Mr. Sontag*. An attempt to understand what modern Existentialism means as an approach to life, through a reading of Kierkegaard's writings, and by a comparison with Sartre and Nietzsche. First semester. *MWF*, 9.

151. PHILOSOPHY AND POETRY. *Mr. Jones*. A study of four philosophical poets—Lucretius, Dante, Goethe, and T. S. Eliot. 3 units. (Omitted in 1958-59.)

153. PHILOSOPHY OF SCIENCE. *Mr. Beckner*. An explication of problems inherent in the nature of scientific method and theory. A survey of the historical background of some key ideas in science, with emphasis on the logical analysis of basic scientific operations, concepts and theories. 3 units. Second semester. *MWF, 10.*

190. SENIOR RESEARCH PROJECT. *Staff*. Independent reading and study on a topic of the student's choice, culminating in a major research paper. The course may be repeated for a total of six units. 3 units. Each semester. Arranged.

HISTORY OF POLITICAL THOUGHT. See Government 182.

AVAILABLE AT SCRIPPS COLLEGE

IV-55. PHILOSOPHY OF RELIGION. *Mr. Greene*. Second semester. *MWF, 10.*

IV-57. LOGIC. *Mr. Barrett*. Second semester. *MWF, 11.*

IV-156. SOCIAL AND POLITICAL PHILOSOPHY. *Mr. Barrett*. First semester. *MWF, 10.*

IV-160. CONTEMPORARY PHILOSOPHY. *Mr. Barrett*. Second semester. *MWF, 10.*

IV-161. PHILOSOPHY OF ART. *Mr. Greene*. Second semester. *MWF, 11.* Open to qualified juniors and seniors by permission of the instructor.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H-140. PHILOSOPHY OF IDEAS. *Mr. Alamshah*. 3 units. First semester. Arranged.

H-190. SELECTED PROBLEMS IN PHILOSOPHY. *Mr. Alamshah*. 3 units. Second semester. Arranged.

Physical Education

A student is required to take one unit of Physical Education Activities per semester during his Freshman and Sophomore years, and one-half unit per semester during his Junior and Senior years.

CONCENTRATION IN PHYSICAL EDUCATION

This program, followed by a year of graduate work, will qualify the student for the general credential with a major in physical education. It will also qualify the student for further study in physical therapy, occupational therapy, and recreation. Students interested in the three latter fields should confer with some member of the physical education department during the freshman year since slight changes in the following program may be needed to qualify for entrance to some of these fields.

In order to complete all required courses in the four-year college period students should take courses in the year in which they are suggested below.

FRESHMAN YEAR: Biology 1, English 1, Physical Education 5, Speech and Drama 32, 102.

SOPHOMORE YEAR: Zoology 37, Psychology 51, Sociology 51 and 52.

JUNIOR YEAR: Physical Education 123, 124, 129, 152, 118 or 119 (women), 191 (men), 192 (men), Psychology 107. Suggested: Music 53, Physical Education 224.

SENIOR YEAR: Physical Education 126, 154, 130 (women), 118 or 119 (women), Psychology 108.

In addition to the above, 6 units of physical education activities are required. It is suggested that these be so selected as to give the individual opportunity for both technical skills and leadership training in a wide range of activities.

A reading knowledge of French or German is highly desirable for students planning graduate research in physical education.

A non-credit Camp Counselor's training course for women is held throughout the year. The course aims to provide its members with experience and skills useful in summer camps, playgrounds, and other activities of community recreation. (Given when there is sufficient demand.)

THEORY

5. PRINCIPLES OF HEALTHFUL LIVING. *Miss Maeys*. A consideration of factors that influence the physical and mental health of people as individuals and as members of society. Includes methods for the promotion of the health of the individual with emphasis on special health problems of college students and young people generally. 3 units. First semester. *MWF*, 10.

118a, 118b. (Women.) METHODS OF TEACHING INDIVIDUAL AND DUAL SPORTS. *Miss Maeys*. Analysis of techniques and methods of presenting individual and dual sports. Prerequisite: minimum skill in the following physical education activities: archery, badminton, swimming, tennis. 2 units. *TTh*, 9 and arranged. (Given in alternate years; omitted in 1958-59.)

119a, 119b. (Women.) METHODS OF TEACHING TEAM SPORTS. *Miss Maeys*. Analysis of techniques and methods of presenting team sports. Prerequisite: minimum skill in the following physical education activities: basketball, hockey, softball, speedball, volleyball. 2 units. *TTh*, 9 and arranged. (Given in alternate years.)

123. NATURE AND FUNCTION OF PLAY. *Miss Cawthorne*. The psychology of play and the function of play in growth, development, social adjustment and democracy. Special attention is given to the elementary school physical education program. First semester. 2 units. *TTh*, 8.

124. COMMUNITY RECREATION. *Miss Cawthorne*. The history, organization and administration of municipal and private recreation (including camping) in the United States. Methods of conducting a varied activity program. Second semester. 2 units. *TTh*, 8.

126. COMMUNITY HYGIENE. *Miss Maeys*. A survey of the field of public health and sanitation. A summary of public health agencies, extensive study of public and private water supplies, disposal of wastes, control of food and dairy products, and mental, industrial and school hygiene. Second semester. 3 units. *MWF*, 10.

129. KINESIOLOGY. *Miss Cawthorne*. An analysis of joint and muscular mechanisms, and their relation to problems of bodily development and efficiency and the teaching of physical activities. Prerequisite: Zoology 37. 3 units. First semester. *MWF*, 8.

130a, 130b. THE HISTORY AND TEACHING OF DANCE. *Mrs. Hypes*. Analysis of the problems and techniques of teaching rhythms at the elementary or high school level. First semester: historical background of folk dance and methods of teaching elementary rhythms and folk dance. Second semester: Historical background and methods of teaching contemporary dance at the secondary school level. One hour lecture, two hours laboratory, each semester. 2 units. Lecture *M*, 10; laboratory *WF*, 10.

152. PHYSICAL DEVIATIONS. *Miss Cawthorne*. Study of body mechanics and the causes, prevention, and correction of physical defects. Methods of examination, prescription of exercises. Prerequisite: 129 or permission of instructor. 3 units. Second semester. *MW*, 8; and laboratory *F*, 8-10.

154. PRINCIPLES OF PHYSICAL EDUCATION. *Mr. Malan*. A study of Physical Education Philosophy including the scientific bases and the historical background of the profession, the development of guiding principles, and the relation of those principles to current practices. Limited to junior and senior majors in Physical Education and minors in Education. 3 units. Second semester. *MWF*, 11. (Omitted 1958-59.)

191a, 191b. (Men.) METHODS OF TEACHING ATHLETIC ACTIVITIES. *Staff*. A study of the theories and techniques used in teaching and coaching the activities of football, basketball, track and field, and baseball. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *TTh* 1:15 and arranged. (Offered in alternate years.)

192a, 192b. (Men.) METHODS OF TEACHING PHYSICAL EDUCATION ACTIVITIES. *Staff*. A study of the theories and techniques used in teaching the activities of tennis, swimming, self-defense and a variety of other physical education activities. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *MW*, 2:15 and arranged. (Offered in alternate years.)

MEN'S ACTIVITIES

Students engage in programs of physical education activities selected according to individual needs as determined by medical and physical examinations and tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense, proficiency in fundamental activities, reasonable skill in at least one individual sport and in one team game.

The following physical education activities are carried on under supervision of the Department: Archery, badminton, baseball, basketball, boxing, corrective exercises, cross country running, dancing, fencing, football, golf, gymnastics, Rugby, American Red Cross life saving, skiing, skin and skuba diving, soccer, softball, swimming and diving, tennis, touch football, track and field athletics, tumbling, volleyball, water polo, weight lifting, and wrestling. Co-educational classes are sponsored also with the Women's Department. Fees as indicated are required each semester of those who select archery (\$1.50), fencing (\$7.00), golf (\$12.50), skin and skuba diving (\$40.00).

The Department conducts a competitive intramural program including sports in season.

The college program of intercollegiate athletics is an integral part of the program of Physical Education. No student is permitted to participate in the more strenuous forms of competition without a certificate from the College Physician indicating that the individual is physically fit for such participation.

The student obtains credit in the required courses listed below by participation in activities selected in accordance with the principles set forth in the preceding paragraphs.

1a-1b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Freshman year. $\frac{1}{2}$ unit. Arranged.

2a-2b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required of Freshmen not taking Military Science. $\frac{1}{2}$ unit. Arranged.

53a-53b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Sophomore year. $\frac{1}{2}$ unit. Arranged.

54a-54b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required of Sophomores not taking Military Science. $\frac{1}{2}$ unit. Arranged.

105a-105b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Junior year. $\frac{1}{2}$ unit. Arranged.

107a-107b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Senior year. $\frac{1}{2}$ unit. Arranged.

WOMEN'S ACTIVITIES

Medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Participation in a Fundamental Activity is required one semester of the Freshman year. Students may have freedom of election in other activities insofar as medical and physical examinations warrant, but must include by the end of the Sophomore year one individual sport, and one semester of some form of dancing. The passing of a swimming achievement test is required for graduation. It should be completed by the end of the Sophomore year.

Activity fees are charged for badminton, and archery (\$1.50 semester), golf (\$12.50 semester), fencing (\$7 semester), social dancing (\$10 semester), riding (\$30 semester), bowling (35¢ a line).

Six units of Physical Education Activities are required for graduation. One-half unit is credited for Fundamentals, which includes courses organized to teach the basic fundamentals of physical activity. The remaining 5½ units may be earned by participation in other activities.

Freshmen and Sophomores must arrange their activities so that classes are taken on M, T, W, and Th.

FUNDAMENTALS: contemporary dance, individual gymnastics, group gymnastics, body mechanics, stunts and tumbling.

TEAM SPORTS: basketball, softball, speedball, hockey, volleyball.

INDIVIDUAL SPORTS: archery, badminton, tennis, golf, swimming, fencing, bowling, riding.

DANCING: contemporary, folk and square, social.

RECREATIONAL GAMES: table tennis, paddle tennis, etc.

11a-11b. FUNDAMENTALS AND OTHER ACTIVITIES. *The Staff*. Required, Freshman year. ½ unit. Arranged.

12a-12b. SPORTS OR DANCING. *The Staff*. Required, Freshman year. ½ unit. Arranged.

63a-63b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required Sophomore year. ½ unit. Arranged.

64a-64b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Sophomore year. ½ unit. Arranged.

115a-115b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Junior year. ½ unit. Arranged.

117a-117b. PHYSICAL EDUCATION ACTIVITIES. *The Staff*. Required, Senior year. ½ unit. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

224. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. *Mr. Arce.* Required for teaching credential. 3 units. *Th*, 7-9. (Available at the Claremont Graduate School during Summer Session when there is sufficient demand; omitted in 1958.)

Physics

The Lower division preparation for a concentration includes Physics 51 and 52, Mathematics 50 or 65 and Chemistry 1. The minimum concentration includes 26 units of upper division physics, including Physics 142, and Mathematics 150b and 151. Additional work in chemistry, engineering drawing and mathematics is recommended. The minimum concentration will normally be elected by those who plan to use physics in combination with training in some other field, and who do not plan to do graduate work in physics.

A student who plans to do graduate work in physics will normally add to the above courses Physics 191 and 192. He is expected to establish a good foundation in chemistry and mathematics and to acquire a reading knowledge of German.

All students concentrating in physics will consult with the physics staff about their concentration examination during the first week of their senior year.

1a, 1b. INTRODUCTION TO PHYSICAL SCIENCE. *Mr. Fryer.* Intended for those wishing to obtain a knowledge of physics and related topics from the other physical sciences. The historical aspects of physical science with emphasis upon the method of science and the persons who have contributed to the present understanding. Illustrated by numerous experimental demonstrations and films. Fee \$5.00 each semester. 3 units. *MWF*, 10.

51a, 51b. GENERAL PHYSICS. *Mr. Fowler.* Mechanics, heat, sound, light, electricity and magnetism; and an introduction to atomic physics. This course, together with Physics 52, is planned especially for those students who expect to continue studies in physics, chemistry, engineering or medicine. Prerequisite: Mathematics 1 preceding or 50 concurrently. 3 units. *TThS*, 8, and one discussion hour *Th*, 9, 10; *F*, 9, 10, 11.

52a, 52b. GENERAL PHYSICS LABORATORY. *Mr. Henke and the Staff.* Quantitative laboratory problems selected from the subjects treated in Physics 51. Physics 51 or equivalent must accompany or precede this course. Laboratory fee \$6.00. 1 unit. *MTWTh* or *F*, 1:15-4:05.

101a, 101b. ATOMIC AND NUCLEAR PHYSICS. *Mr. Miller.* Introduction to the experimental and theoretical foundations of modern atomic and nuclear physics. Prerequisites: Physics 51, Mathematics 50 preceding or 65 concurrently. 3 units. *TThS*, 8.

110. HEAT AND THERMODYNAMICS. *Mr. Henke*. The principles of thermodynamics and kinetic theory. The first and second laws of thermodynamics and their application will be emphasized. Prerequisites: Physics 51, Mathematics 65. 3 units. First semester. *MWF*, 9.

113a, 113b. MECHANICS. *Mr. Henke*. Kinematics, dynamics, and statics of particles and rigid bodies with applications to problems of physics and engineering. Prerequisite: Physics 51, Mathematics 151 preceding or accompanying the course. 3 units. *TThS*, 9.

141a, 141b. ELECTRICITY AND MAGNETISM. *Mr. Fryer*. Electrostatics and electrodynamics, electrical circuit theory, thermionics, and introductory electromagnetic field theory. Prerequisites: Physics 51, Mathematics 151 preceding or accompanying the course. 3 units. *MWF*, 8.

142a, 142b. ELECTRICAL MEASUREMENTS LABORATORY. *Mr. Fryer*. The first semester is concerned with direct-current measurements and the use of standard bridge circuits. The second semester emphasizes alternating-current circuits and vacuum tube devices commonly employed in physical and engineering laboratories. Laboratory fee \$6.00. 1 unit. *T or W*, 1:15-4:05.

153. OPTICS. *Mr. Fowler*. Theory and applications of physical optics with emphasis upon the phenomena of interference, diffraction and polarization of light. Prerequisites: Physics 51, Mathematics 151 preceding or accompanying the course. 3 units. Second semester. *MWF*, 9.

191a, 191b. MATHEMATICAL PHYSICS. *Mr. Fowler, Mr. Miller*. Application of mathematics to selected subjects in classical and quantum physics. Prerequisites: Physics 51, Mathematics 151 and approval of the instructor. 3 units. *MWF*, 11.

192a, 192b. ADVANCED PHYSICS LABORATORY. *Staff*. Experimental study of selected physical problems with emphasis on modern techniques in optical, atomic and nuclear physics. Prerequisite: Departmental approval. Laboratory fee \$6.00. 1 unit. *Th*, 1:15-4:05.

199. SELECTED TOPICS IN PHYSICS. *Staff*. Special work in certain advanced subjects not treated in the other courses of the department is available to students of proven ability. Prerequisite: Departmental approval. 1 to 3 units. Each semester. May be repeated for credit. Arranged.

Psychology

Students concentrating in Psychology are required to take Psychology 51 and 24 units of upper division courses including specifically: Psychology 102, 104, 192a or 192b and 194a and 194b. Six hours of the upper division concentration requirements may be satisfied by offering Philosophy 153, Mathematics 118, English 151, Biology 112, Sociology 154, or Zoology 121.

Students planning to go on to graduate school are advised to have an adequate preparation in the physical sciences, and to obtain a knowledge in German and French.

Psychology 51 is a prerequisite for all other courses in the department except Psychology 102 and 171. Ordinarily, students will take 51 followed by an area course of their choice (e.g., industrial, child, social) in order to appreciate the application of the basic principles learned in 51.

51. INTRODUCTION TO PSYCHOLOGY. *Staff*. Fundamental principles of human behavior. Laboratory fee \$4. 4 units. Three sections. First semester, *MWF*, 8; *TThS*, 9, 10. Second semester, *MWF*, 9. Demonstration session, *WF*, 2:15-4:05.

102. PSYCHOLOGICAL STATISTICS FOR BEHAVIORAL SCIENCES. *Mr. Cahill*. Descriptive and analytic statistical procedures including correlation, probability, and test of significance. (Credit will not be given for both Economics 57 and Psychology 102.) Laboratory fee \$10. 4 units. First semester, lecture *MWF*, 10, laboratory *M* or *W*, 2-4.

104. INTRODUCTION TO EXPERIMENTAL METHODS IN BEHAVIORAL SCIENCES. *Mr. Cahill*. Discussion and demonstration of methods of studying psychological problems and evaluating data. Laboratory experiments. Laboratory fee \$3.50. Prerequisite: Psychology 51 and 102 or permission of instructor. 4 units. Second semester. *MWF*, 10. Laboratory, *M* or *W*, 2-4.

105. PSYCHOLOGY WITH APPLICATION TO BUSINESS AND INDUSTRY. *Mr. Bell*. Discussion of principles of psychology with application to business, industry and government. 3 units. Second semester. *MWF*, 8.

106. PSYCHOLOGY OF PERSONAL ADJUSTMENT. *Staff*. A consideration of the personal problems of living a normal life in a complex modern society. 3 units. Second semester. *F*, 1:15-4:05.

107. EDUCATIONAL PSYCHOLOGY. *Mr. Faust*. Practical applications of psychology to education. 3 units. Second semester. *TThS*, 10.

108. CHILD PSYCHOLOGY. *Mr. Faust*. A survey of development and behavior of the young child. 3 units. First semester, *TThS*, 9; second semester, *MWF*, 9.

117. PHYSIOLOGICAL PSYCHOLOGY. *Staff*. Physiological and neural aspects of psychological functions. Permission of instructor required. 3 units. (Omitted in 1958-59.)

131. ABNORMAL PSYCHOLOGY. *Mr. Cahill*. Problems of maladjustment, factors contributing to mental disorders, methods of diagnosis and therapy. 3 units. First semester, *MWF*, 11. Second semester, *MWF*, 11.

154. SOCIAL PSYCHOLOGY. *Mr. Earl*. Examination of the psychological factors of group behavior, with special emphasis on language behavior, intra-group and inter-group communication. 3 units. Second semester. *MWF*, 9.

155. INDIVIDUAL DIFFERENCES. *Mr. Bell*. A study of the measurement of individual differences and the theory of test construction. Application to education, industry, counseling and clinical situations. Psychology 102 or mathematical background is advisable. Laboratory fee \$5. 3 units. First semester. *MWF*, 9.

168. PSYCHOLOGY OF ADOLESCENCE. *Mr. Faust*. The study of later childhood and adolescence. Prerequisites: Psychology 108. 3 units. Second semester. *T*, 1:15-2:05; *Th*, 1:15-3:05.

170. THEORIES OF LEARNING. *Mr. Cahill*. Examination and evaluation of theories of learning, including current research and application of learning principles to human behavior. 3 units. Prerequisite: 12 units of psychology. First semester. *TThS*, 10.

171. INTRODUCTION TO BEHAVIORAL THEORIES. *Staff*. An advanced seminar in the problems of theory construction and model constructs in all the behavioral sciences. Registration by permission only. Second semester. Arranged. (Omitted in 1958-59.)

172. SYSTEMS OF PSYCHOLOGY. *Mr. Cahill*. A discussion of contemporary systems of psychology with special emphasis placed upon Behaviorism, Gestalt Psychology, and Psychoanalysis. 3 units. First semester. *MWF*, 9. (Omitted in 1958-59.)

173. THEORIES OF PERSONALITY. *Mr. Bell*. A critical examination and evaluation of current theories of personality. 3 units. Second semester. *MWF*, 11.

192. READING AND RESEARCH. *Staff*. Individual work on special topics. May be repeated for credit. Three hours are required of students who are concentrating in psychology. Either semester. Laboratory fee \$10. 1 to 3 units. *W*, 1:15-2:05, and arranged.

194a, 194b. SENIOR READING COURSE. *Staff*. A course designed to supplement and integrate the different courses offered to meet the concentration requirement in psychology and to prepare students for the comprehensive examination. Required of seniors who are concentrating in psychology. 3 units. *T*, 1:15-4:05.

AVAILABLE AT SCRIPPS COLLEGE

IV-110. CHILD DEVELOPMENT. *Mrs. Faust*. Prerequisite: Elementary Psychology. First semester. *MWF*, 11.

IV-112. CHILD STUDY IN THE NURSERY SCHOOL. *Miss Gillies*. Prerequisite: Elementary Psychology and IV-110 or equivalent, or may be taken concurrently with IV-110 by upperclassmen. Year course. *MW*, 2:15 and arranged hours in the Nursery School.

IV-114. NURSERY SCHOOL PROCEDURE. *Miss Gillies*. Prerequisite: IV-112, or may be taken concurrently with IV-112 by seniors. Year course. *MW*, 3:15-4:05 and arranged hours in the Nursery School.

Religion

Students planning to concentrate in Religion should take the following basic courses or their equivalents: Religion 1, 2, and 65; History 1; Philosophy 50 and 124. Twenty-four hours of upper division work, of which at least eighteen must be in the field of religion at Pomona or the other Associated Colleges, are required. Six hours of upper division work may be taken in related fields such as art, classics, English, education, government, history, music, philosophy, psychology and sociology.

CONCENTRATION IN RELIGION AND PHILOSOPHY: See Philosophy.

1. THE RELIGION OF THE OLD TESTAMENT. *Staff*. An introduction to the developing beliefs and practices of Hebrew religion as set forth in the literature of the Old Testament. 3 units. First semester. Five sections. *MWF*, 8, 9; *TThS*, 8, 9.

2. THE RELIGION OF THE NEW TESTAMENT. *Staff*. An introduction to the origin and growth of the early Christian message and community as set forth in the literature of the New Testament, with special emphasis upon Jesus and Paul. 3 units. Second semester. Five sections. *MWF*, 8, 9; *TThS*, 8, 9.

65a, 65b. HISTORY OF CHRISTIAN THOUGHT. *Mr. Ferm*. A study of the major issues and thinkers in the history of Christianity. First semester: early Christianity and the Middle Ages. Second semester: Reformation and post-Reformation developments. 3 units. *MWF*, 8.

101. PHILOSOPHY OF RELIGION. *Staff*. An analysis of the human situation and its religious problems, with consideration of several answers to these problems such as existentialism, mysticism, rationalism, humanism, and the Christian faith. 3 units. (Omitted in 1958-59.)

103. INTERPRETATION OF CHRISTIAN IDEAS. *Mr. Hazelton*. An exposition of the Christian faith with special consideration of the nature of God, Jesus Christ, human sin and salvation, providence, freedom, and the church. 3 units. First semester. *TTh*, 1:15-2:45.

104. CONTEMPORARY RELIGIOUS THOUGHT. *Mr. Hazelton*. Reading and discussion of American and European writers reflecting varying interpretations of the Christian message for the modern world and its impact on contemporary thought. 3 units. Second semester. *TTh*, 1:15-2:45.

105. ISSUES IN RELIGIOUS THOUGHT. *Mr. Hazelton*. An examination of some problems that arise in theological discussion today, such as the relation of faith to reason, the truth of religious symbols and myths, the encounter with various types of unbelief in contemporary literature, or the conception of human nature and its fulfillment. 3 units. (Omitted in 1958-59.)

106. THE CHRISTIAN APPROACH TO OTHER RELIGIONS. *Mr. Hazelton*. A consideration of the points of contact and possible communication, dealing chiefly with ideas of God in various world-faiths against the background of changing patterns of culture in our own time. 3 units. (Omitted in 1958-59.)

111. THE FAITH OF ANCIENT ISRAEL. *Mr. Rosché*. An examination of the major religious themes in the Old Testament concerning God, man, sin, and salvation, with special attention as to how the writers express the nature and activity of God, the purpose and personality of man, the nature and consequence of Israel's sin, and the individual and corporate requirements for salvation. 3 units. (Omitted in 1958-59.)

115. HISTORICAL BACKGROUND FOR THE EARLY CHRISTIAN MOVEMENT. *Mr. Rosché*. A study of the development of religious thought in the crucial period from the later Old Testament to the New Testament in which the Dead Sea Scrolls, the Apocrypha, and other similar works will be discussed. 3 units. First semester. *TThS*, 10.

116. THE STUDY OF THE GOSPELS. *Mr. Rosché*. An examination of the Gospels, noting recent source and form criticism concerning the events of Jesus' life, his conception of his mission, his teachings, and the place of the Gospels as history in the Christian church. 3 units. (Omitted in 1958-59.)

118. PROBLEMS IN THE NEW TESTAMENT. *Mr. Rosché*. An examination of particular persons and fundamental themes in the New Testament writings. Spring, 1959: the thought of Paul as related to that of other New Testament writers. 3 units. Second semester. *TThS*, 10.

142. CHRISTIANITY AND CULTURE. *Mr. Hazelton*. An intensive study of certain historical and contemporary efforts to interpret the relation of Christian faith to cultural movements in the arts, sciences, and philosophy. Autumn, 1958: the thought of Blaise Pascal and Gabriel Marcel. 3 units. First semester. *TTh*, 2:45-4:05.

160. CATHOLICISM AND PROTESTANTISM. *Mr. Hazelton*. A comparative study of the theology and worship of Roman Catholic and Protestant churches, in both their original and traditional forms. 3 units. Second semester. *TTh*, 2:45-4:05.

191a, 191b. ADVANCED READING IN RELIGION. *Staff*. A reading program for upper division students. Admission by permission of instructor. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-140a, 140b. THE RELIGIONS OF THE WORLD. *Mr. Ross*. *TTh*, 8, and arranged hour.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

H-152. ETHICS. *Mr. Meyners*. 3 units. Second semester. Arranged.

Romance Languages and Literatures

Concentrators: A major in one Romance language is required to take a minimum of 24 units in courses numbered over 100. A major in Romance languages, 36 units.

French major: Prerequisite 81b; required 120, 141.

Spanish major: Prerequisite 91b; required 120, 151.

Romance Languages major: Prerequisite French 81b, Spanish 91b; required: French 120, 141; Spanish 120, 151.

Latin: Although not required, a knowledge of Latin is recommended, particularly for students who contemplate graduate work.

Final senior examinations: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

1) A one-hour oral examination to test the student's command of the language.

2) A three-hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.

3) A three-hour written general examination on the literature.

Extra-curricular activities: In addition to his classwork, the student is required to supplement his training by use of the Department's *Language Laboratory* facilities one hour per week. Fee \$1.00 per semester. Students may also participate in the Language Clubs. Attention is called to *La Maison Française* and *La Casa Hispánica* where women students may elect to reside and enjoy the benefit of native speaking environment.

Language Placement: All students who have had foreign language training in Romance languages and who consider taking further work in the same language are required to consult the Department to determine at what level they should be placed.

Attention is called to the fact that the intermediate courses in French and Spanish meet lower Division Requirement 6.

FRENCH

Courses for concentration: Any courses numbered over 100. Prerequisite: French 81b or its equivalent. Of the courses on the literature, French 120 must be taken first.

1A-1B. *ELEMENTARY. Staff.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. Four sections. *MWF*, 9, 11, 1:15; *TThS*, 9.

51a-51b. INTERMEDIATE. *Mrs. Copple, Mr. Pronko*. Second year college French. Intensive class reading of selected cultural and literary texts; outside reading related to individual interests. Grammar review and conversational practice. 3 units. Three sections. *MWF, 10; TThS, 10, 1:15-2:30*.

61a, 61b. INTERMEDIATE CONVERSATION. *Staff*. A course in spoken French stressing fluency and accuracy. Dialogues, reports and practice work in language laboratory. Consent of instructor required. 2 units. *MWF, 11*.

81a-81b. ADVANCED. *Mr. Leggewie*. Discussions in French based on readings designed to give insight into French culture. Review of significant grammar points. Oral and written reports. Prerequisite: French 51b or the equivalent. 3 units. Two sections. *MWF, 10; TThS, 10*.

UPPER DIVISION COURSES

French 81b or its equivalent is required for admission to all advanced courses, except French 130.

120a-120b. SURVEY OF FRENCH LITERATURE AND CIVILIZATION. *Mr. Leggewie*. A general outline course in the history of French literature from its origin to modern times. 3 units. (To be offered in 1959-60.)

124a, 124b. LITERATURE OF THE NINETEENTH CENTURY. *Mrs. Copple*. An intensive study of the major poets, dramatists, and novelists. First semester, Romanticism; second semester, Realism. 3 units. *MWF, 9*.

127. MODERN FRENCH THEATRE. *Mr. Pronko*. Study of representative playwrights of today with special emphasis on Claudel, Giraudoux, Sartre and Camus. 3 units. (To be offered in 1959-1960.)

130. THE CONTEMPORARY NOVEL. *Mr. Leggewie*. Study of such outstanding writers as Gide, Mauriac, Proust, Sartre and Camus. Lectures in English, readings in original or translation. Permission of instructor required. 3 units. Second semester. *F, 1:15-3:05*.

141. ADVANCED CONVERSATION AND COMPOSITION. *Mrs. Copple*. A course designed to develop skill and accuracy in literary composition and oral expression. Required of majors. 3 units. First semester. (To be offered in 1959-60.)

153a, 153b. LITERATURE OF THE SEVENTEENTH CENTURY. *Mr. Leggewie, Mr. Pronko*. Intensive study of the great masters of the French classical age: Corneille, Molière, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld and others. 3 units. *W, 1:15-3:05*.

156. LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Pronko*. A study of the Age of Enlightenment with particular emphasis on Montesquieu, Diderot, Voltaire and Rousseau. 3 units. (To be offered in 1959-60.)

190. READING AND RESEARCH IN FRENCH. *Staff*. Open to majors capable of independent study to supplement advanced course work. Permission of instructor and departmental chairman required. May be repeated. 2-4 units. Each semester. Arranged.

ITALIAN

1a-1b. ELEMENTARY ITALIAN. *Mr. Pronko*. Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. Arranged.

81a-81b. ADVANCED ITALIAN. *Staff*. Conducted in Italian as far as possible. Extensive class and outside readings to serve as an introduction to Italian civilization. 3 units. (To be offered in 1959-60.)

SPANISH

Courses for concentration: Any courses numbered over 100. Prerequisite: Spanish 91b or its equivalent. Of the courses on the literature, Spanish 120 must be taken first.

11a-11b. ELEMENTARY. *Mr. Young*. Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. *MWF, 10.*

71a-71b. INTERMEDIATE. *Mr. Baird*. Second year college Spanish. Intensive reading of selected cultural and literary texts; outside reading related to individual interests. Grammar review and conversational practice. 3 units. *MWF, 9.*

81a, 81b. INTERMEDIATE CONVERSATION. *Mr. Baird*. A course in spoken Spanish stressing fluency and accuracy. Dialogues, reports and practice work in language laboratory. Must have the consent of the instructor. 2 units. *MWF, 10.*

91a-91b. ADVANCED. *Mr. Young*. Advanced discussions in Spanish based on readings designed to give insight into Spanish culture. Review of significant grammar points. Oral and written reports. Prerequisite: Spanish 71b or the equivalent. 3 units. *MWF, 9.*

UPPER DIVISION COURSES

Spanish 91b or its equivalent is required for admission to all advanced courses, except Spanish 170.

120a-120b. SURVEY OF SPANISH LITERATURE. *Mr. Baird*. A general outline course in the history of Spanish literature from its origins to modern times. 3 units. (To be offered in 1959-60.)

151. ADVANCED CONVERSATION AND COMPOSITION. *Mr. Baird*. A course designed to develop skill and accuracy in literary composition and oral expression. Required of majors. 3 units. First semester. *TTh, 1:15-2:30.*

170. CERVANTES. *Mr. Young*. A study of the life and works of Cervantes with special attention to Don Quixote and its relation to European Literature. First semester. *TTh, 2:40-3:55.*

172. THEATER OF THE GOLDEN AGE. *Mr. Baird*. Intensive class study of Lope de Vega, Ruiz de Alarcón, Tirso, and Calderón. 3 units. Second semester. *TTh, 1:15-2:30.*

175. LITERATURE OF THE NINETEENTH CENTURY. *Mr. Young*. A study of romanticism and realism. Authors: El Duque de Rivas, Espronceda, Larra Galdós, Valera, and Alas. 3 units. Second semester. *TTh*, 2:40-3:55.

190a, 190b. CONTEMPORARY SPANISH LITERATURE. *Mr. Young*. The Generation of '98, pre-Civil War figures, and significant authors of the present day. Main writers: Unamuno, Baroja, Valle-Inclán, Benavente, Ortega y Gasset, Juan Ramón Jiménez, Pedro Salinas, García Lorca. 3 units. (To be offered 1959-60.)

192. READING AND RESEARCH IN SPANISH. *Staff*. Open to majors capable of independent study to supplement advanced course work. Permission of instructor and departmental chairman required. May be repeated. 2-4 units. Each semester. Arranged.

CIVILIZATION COURSES IN TRANSLATION

111a, 111b. THE CIVILIZATION OF HISPANIC AMERICA. *Mr. Young*. A survey of the cultural and historical development of Hispanic American civilization from pre-Colombian times to the present. 3 units. *MWF*, 3:15. (Alternates with 112a, 112b.)

112a, 112b. THE CIVILIZATION OF SPAIN. *Mr. Baird*. A survey of the cultural and historical development of the Iberian Peninsula from early times to the present. 3 units. (Alternates with 111a, 111b; omitted 1958-59.)

AVAILABLE AT SCRIPPS COLLEGE

I-155. SURVEY OF SPANISH LITERATURE. *Mrs. Lamb*. Year course. *MWF*, 10.

Russian

1a-1b. ELEMENTARY RUSSIAN. *Mr. Nilus*. Essentials of grammar, pronunciation, constant exercise in reading and writing. 3 units. *TThS*, 9.

51a-51b. INTERMEDIATE RUSSIAN. *Mr. Nilus*. More advanced study of Russian grammar. Daily reading, writing, translating and practice in Russian conversation. 3 units. *TThS*, 10.

Sociology and Anthropology

Distribution requirement. In sociology and anthropology this requirement can be met in two ways: (a) by any two of the four courses, Sociology 51, Sociology 52, Anthropology 53, Anthropology 102; (b) by Sociology 51, or Anthropology 53, and any two upper division courses in the department.

Requirements for concentration. Sociology 51 and Anthropology 53 or 102, plus 24 units of upper division work in the department are required.

Statistics. Although not an absolute requirement, all students concentrating in the department are advised to take a course in statistics, either Economics 57, or Psychology 102. In addition the following courses in methods are highly recommended: Philosophy 122 and Social Science 209a, b (Graduate School Catalogue). These units may be applied toward the 24 units of upper division work required.

Related areas of study. Students concentrating in the department should take six units of approved upper division work in at least one of the following areas: education, economics, government, history, oriental affairs, philosophy, psychology, or religion. Consult the adviser for specific courses approved in each department. Students planning to enter graduate study in anthropology should consult with the departmental adviser as early as possible concerning appropriate courses in science and the humanities.

Foreign languages. All students are urged to obtain a working knowledge of at least one modern foreign language. For those intending to engage in school teaching or social work in the southwest, this language should be Spanish. For those intending to take graduate work toward the Ph.D. in sociology, French and German are recommended. For those intending to pursue graduate study in anthropology, a reading knowledge of French and German is desirable, plus a command of the language in the culture area of one's choice.

Honors Study. Students who have better than a B grade average and who desire to pursue independent study may register for honors, preferably during their junior year, but no later than the beginning of the senior year. This program, culminating in a thesis, is especially useful where a student is interested in a project that cuts across departmental lines.

SOCIOLOGY

51. *THE STUDY OF SOCIETY. Staff.* The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior. Not open to freshmen. 3 units. First semester. *TTh*, 8, and twelve small discussion and conference sections at arranged hours.

52. *SOCIAL PROBLEMS. Mr. Ball.* An analysis of the major problems of present day society related to individual, family, community, and world disorganization. Open to second semester freshmen. 3 units. Second semester. *TThS*, 8.

106. *SOCIAL WELFARE. Mr. Scaff.* Social welfare in the western world. A survey of basic principles and modern practice. Field visits and observation. 3 units. Second semester. *MWF*, 11. (Alternates with 112; omitted in 1958-59.)

107. *CRIMINOLOGY AND PENOLOGY.* Types of criminal behavior. Factors contributing to crime and methods of dealing with criminals. Prerequisite: Sociology 51, or two of the following: Economics 51, Government 51, History 1. 3 units. Second semester. *MWF*, 9.

110. RACE RELATIONS. *Mr. Ball*. Discrimination against minority groups, and programs of action, with emphasis upon the American experience. Prerequisite: Sociology 51, or Anthropology 53, or consent of the instructor. 3 units. Second semester. *TThS*, 10.

111. PROBLEMS OF WORLD DEMOGRAPHY. *Mr. Ball*. An analysis of the basic characteristics of the population of the United States and of major areas of the world. The implications of population change for economic and political adjustments, international relations, and the development of world resources. Prerequisite: Sociology 51, or sufficient background in other social sciences to satisfy the instructor. 3 units. First semester. *TThS*, 10. (Omitted 1958-59.)

112. THE AMERICAN COMMUNITY. *Mr. Scaff*. The development of the American Community as an ecological, cultural, and social system. Supervised observation and field study in the local area. Prerequisite: Sociology 51, or instructor's permission. 3 units. Second semester. *MWF*, 11.

115. MARRIAGE AND THE FAMILY IN MODERN AMERICA. *Mr. Ball*. Consideration of the alterations taking place in marriage in our rapidly changing society. Analysis of the factors associated with family stability. Prerequisite: junior or senior standing. (See Sociology 116.) 2 units. First semester. *TTh*, 1:15.

116. THE FAMILY AS AN INSTITUTION. *Mr. Ball*. Comparative study of familial institutions in various cultures. Evaluation of the concepts developed for comparative analyses. (Enrollment limited to those who are taking, or have taken Sociology 115.) 1 unit. First semester. *Th*, 2:15.

152. SOCIAL CONTROL. *Mr. Ball*. Society's means of creating and maintaining its social patterns, through group norms and pressures, law, public opinion, propaganda, etc. Open to juniors and seniors only. Prerequisite: Sociology 51, or sufficient background in the other social sciences to satisfy the instructor. 3 units. Second semester. *MWF*, 9. (Alternates with 107; omitted 1958-59.)

153. COMPARATIVE SOCIAL MOVEMENTS. *Mr. Scaff*. Emphasis on the ideology and the dynamics of such movements as Socialism, Nazism, Communism, and Cooperation. Prerequisites: Sociology 51, or two of the following: Economics 51, Government 51, History 1. Open to Juniors and Seniors only. 3 units. First semester. *MWF*, 10.

154. THE DEVELOPMENT OF MODERN SOCIAL THEORY. *Mr. Scaff*. The rise of modern sociology, with emphasis on the major contributions from Europe and America since 1900. Writing assignments and seminar discussion of important selected works. Prerequisite: Sociology 51, or Anthropology 53. Open to Juniors and Seniors only. 3 units. Second semester. *M*, 3:15, and arranged.

191a-191b. INSTITUTIONAL ANALYSIS. *Mr. Scaff*. Application of basic social science concepts to the analysis and understanding of various types of institutional agencies and their programs. Seminar and field placements. Individual projects. Open only to seniors with written permission of the instructor. 3 units. *W*, 3:15, and arranged.

192a, 192b. READINGS AND RESEARCH IN SOCIOLOGY. *Staff*. Open to students capable of independent study. Individual programs must be approved in advance. 3 units. Arranged.

ANTHROPOLOGY

53. HUMAN AND CULTURAL EVOLUTION. *Mr. Leslie*. An introductory study of fossil men and of primitive cultures, with an analysis of the evolutionary significance of the emergence of cultural traditions. Open to freshmen by written permission of the instructor. 3 units. Second semester. *TThS*, 9. (Some weeks the class will be divided into small sections for conference and discussion at arranged hours.)

102. WORLD ETHNOGRAPHY. *Mr. Leslie*. An introduction to the culture areas of Africa, the South Pacific, North and South America, with comprehensive descriptions of selected societies in those areas. No prerequisite. 3 units. Second semester. *MWF*, 8.

108. THE COMPARISON OF CULTURES. *Mr. Leslie*. The comparative study of cultural systems by the use of different kinds of analytical models. Prerequisites: Sociology 51, *or* Anthropology 53, *or* Anthropology 102. (Seniors who do not have these prerequisites may register upon receiving the written permission of the instructor.) First semester. *MWF*, 9.

130. EARLY AMERICAN CIVILIZATIONS. *Mr. Leslie*. The development of Mayan, Aztec and other civilizations with attention to the organization of their aesthetic, religious, and political traditions. No prerequisite. 3 units. Second semester. *MWF*, 10.

150. THE PHILOSOPHY AND RELIGION OF PRIMITIVE PEOPLES. *Mr. Leslie*. A study of the speculative thought of selected primitive societies as it is embodied in religious ritual, myth and folklore. Prerequisites: Anthropology 53, *or* Anthropology 102, *or* the written permission of the instructor. Open to juniors and seniors only. 3 units. First semester. *MWF*, 11.

193a, 193b. READINGS AND RESEARCH IN ANTHROPOLOGY. *Mr. Leslie*. Open to students capable of independent study. Individual programs must be approved in advance. 3 units. Arranged.

* * *

Available at the Graduate School for students with senior standing:

209. RESEARCH METHODOLOGY IN THE SOCIAL SCIENCES. *Mr. Goodall* and *Staff*. 4 units. First semester. *Th*, 2:30-5:00.

240. ADMINISTRATIVE ORGANIZATION AND MANAGEMENT. *Mr. Goodall*. 4 units. First semester. *F*, 2:30-5:00.

Speech and Drama

Requirements for concentration in speech and drama:

Lower Division Core Requirements: Speech and Drama 32, 51 (at least two units), 57, 61a, and 61b, in fulfillment of which requirements transfer students may offer equivalent courses pursued at other colleges.

Upper Division Requirements with Emphasis on Speech: Speech and Drama 102, 105, 136, 137; English 155a, 155b or Scripps I-116a, 116b. Six additional units will be chosen from upper division courses in the Speech and Drama Department, or Scripps II-150a-b.

Upper Division Requirements with Emphasis on Drama: Speech and Drama 107a, 107b, 160a, 160b; Scripps II-150a, 150b; English 155a, 155b or Scripps I-116a, 116b. Three additional units will be chosen from: Classics 160a, 160b; Speech and Drama 102, 105, 112a-112b; Scripps I-106, 107; Scripps II-149, 151a, 151b.

In addition to the required work in the speech and drama concentration, the following offerings are suggested as suitable electives, the choice among them depending on the student's particular interests: *Lower Division:* Art 1; English 57, 63, 64; Music 53a-b; Philosophy 51. *Upper Division:* Comparative Literature 181a, 181b; English 102, 154; French 127; Philosophy 151; Physical Education 130a, 130b; Psychology 154. Fluency in at least one modern foreign language (preferably French) is recommended.

In the comprehensive examination the books on a supplementary reading list will be included.

In addition to the comprehensive examination, a demonstration of creative ability in the field of concentration is required.

17. INTRODUCTION TO THE THEATRE. *Mrs. Allen* and *Mr. Forrester*. A broad, general survey of the theatre, with emphasis on the nature and structure of drama, on general aspects and basic techniques in play production, and on the relationship of the various arts to that of the theatre. Designed to afford students whose major interest is not necessarily in this field an acquaintance with the various theatrical forms — stage, motion picture, radio, and television — and to increase their appreciation of these forms by establishing standards for intelligent observation and for increasing discrimination. First semester. 2 units. MF, 3-4:05.

32. SPEECH COMPOSITION AND DELIVERY. *Mr. Martin*. A course to develop skill in effective oral communication. Emphasis is given to training in the analysis, support, development of subject material, appropriate use of language, effective vocal and bodily expressiveness. 3 units. First semester. MWF, 11; TThS, 8.

51a, 51b. PLAY PRODUCTION. *Staff*. Directed study in play production, both in acting and in stagecraft. One unit of credit granted for either fifty hours of rehearsal time under direction, or fifty hours of technical work under direction,

or for fifty hours of rehearsal and technical work combined. Not more than two units of credit may be granted in any one year. A total of eight units of credit may be applied toward graduation.

57. VOICE AND PHONETICS. *Mr. Martin.* Application of a study of the physiology of the voice mechanism and of the characteristics of speech sounds. Designed for those wishing to develop a more flexible and responsive voice for public speech and the theatre, and for those interested in speech correction or linguistics. 3 units. First semester. *MWF, 9.*

61a, 61b. CHARACTER PRESENTATION IN DRAMATIC LITERATURE. *Mrs. Allen.* A study of theories of acting and principles of stage behavior. Pantomime, improvisation, and presentation of scenes from plays. 3 units. *TThS, 10.*

102. PUBLIC SPEAKING. *Mr. Martin.* Study of the principles of persuasive discourse. In frequent performance, students will examine and apply the logical and non-logical modes of influencing belief and action: methods of holding attention and interest, adaption to types of audiences, suggestion, motivation, dramatization of ideas. 3 units. Second semester. *MWF, 11.*

105. ORAL INTERPRETATION. *Mr. Martin.* Through frequent oral presentation of various literary forms including the short story, narrative, lyric and dramatic poetry, and dramatic literature, students are encouraged to an awareness of the nature and craftsmanship of imaginative literature, and of critical standards for choosing material for oral reading. 3 units. Second semester. *MWF, 9.*

107a, 107b. STAGECRAFT. *Mr. Forrester.* A consideration of the visual elements of play production; theory and practice in scene design, costuming and lighting. Includes a study of the history of stagecraft and scenic design, comparative styles and varying techniques in staging. Permission of instructor required. 2 units. One hour lecture, one hour lab. *T, 1:15-3:05.*

112a-112b. PLAYWRITING. *Mrs. Allen.* Principles of playwriting and practice in writing plays. Study of the structure and style of significant plays for their light on the problems of the beginning playwright. 3 units. Arranged.

136. PRINCIPLES AND TYPES OF DISCUSSION. *Mr. Martin.* Study of the principles of group-interaction in problem-solving discussion groups and learning discussion groups. Application in classroom discussions to the business conference, legislative session, and the seminar. 3 units. Second semester. *TTh, 2:45-4:00.*

137. ARGUMENTATION AND DEBATE. *Mr. Martin.* A study of the principles of argumentation and their application in classroom debates on current political, social, and economic problems. Emphasis on logical thinking and its relationship to effective oral communication. Prerequisite: Speech and Drama 32 or permission of the instructor. Speech and Drama 136 is also strongly recommended. 3 units. First semester. *TTh, 2:45-4:00.*

160a, 160b. **ADVANCED ACTING AND DIRECTING.** *Mrs. Allen.* First semester: Detailed study of characterization and styles of acting. Second semester: Fundamental principles of stage directing. Application of theories in class exercises and in the direction of a one-act play. 3 units. *TThS*, 9.

162. **HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS.** *Mr. Martin.* Study of the importance of public address in the development of American institutions. Speeches, speakers, and the basic issues which run through the address of each historical period will be emphasized. Legislative, legal, religious, and popular speaking will be studied in readings, lectures, and individual problems. 3 units. Second semester. Arranged.

165. **READINGS AND RESEARCH IN DRAMA AND SPEECH.** *Staff.* Reading and research programs for senior students who are capable of independent study in fields not included in regularly scheduled courses. 2 or 3 units. Arranged.

SHAKESPEARE. For description see English 155a, 155b.

AVAILABLE AT SCRIPPS COLLEGE

II-150a,b. **DEVELOPMENT OF THE THEATRE AND THE DRAMA.** *Mr. Swan.* *MWF*, 11.

II-151a,b. **CHANGING TECHNIQUES AND STYLES IN ACTING.** *Mr. Swan.* *MWF*, 1:15-3:05.

Zoology

ZOOLOGY CONCENTRATION. Requirements: Zoology 1, and 24 units of upper division credit in Zoology or Biology.

ZOOLOGY-CHEMISTRY CONCENTRATION. Requirements: Zoology 1, 37, or 121 and 135, and Biology 105; Chemistry 1, 59, 106, 110a, 111a or 2, 59, 106; Physics 1 or 51-52; and additional units upper division work in Zoology and/or Chemistry to make at least 24 units.

BIOLOGY CONCENTRATION. See Biology listing.

PRE-MEDICAL CONCENTRATION. See pre-professional programs; pre-dental, pre-nursing, optometry, physical therapy and other allied medical arts preparations are included in the above listed concentrations.

Zoology 11, 130 and 150 are offered at the Kerckhoff Marine Laboratory at Corona del Mar from August 3 to September 6, 1958. Tuition for 6 units is \$90.00. Further information should be secured from Mr. Pequegnat.

1a, 1b. **GENERAL ZOOLOGY.** *Mr. Pequegnat, Mr. Amrein.* An introduction to modern zoology with special reference to phylogeny, physiology, development, genetics, and evolution; laboratory exercises include a study of selected animals and phenomena which best illustrate important zoological principles. No pre-requisites. Laboratory fee \$6.00 each semester. 3 units. Two sections. Section

A, lectures *TTh*, 8; laboratory *Th* at either 1:15-3:05 or 3:15-5:05. Section B, lectures *TTh*, 10; laboratory *W* at either 1:15-3:05 or 3:15-5:05. Laboratory maximum of 24 students.

11. MARINE ZOOLOGY AND ECOLOGY. *Mr. Pequegnat*. An elementary course in biological principles as observed in marine animals. Evolutionary development of the various groups, their specific identification, their ecological distribution, and their habits. Lecture, laboratory, and field work. Designed especially to fulfill the Biological Science requirement. Offered at the Marine Laboratory during the summer. 6 units.

37. INTRODUCTION TO ANATOMY AND PHYSIOLOGY. *Mr. McCarthy*. A course designed primarily for students whose interests lie in physical education, physical or occupational therapy or nursing, psychology or sociology. Special attention given to the human subject and to the physiology of exercise. 4 units. Laboratory fee \$6.00. Prerequisite: Biology 1 or equivalent. First semester. Lectures *MWF*, 10; laboratory *F*, 1:15-4:05.

106. PARASITOLOGY. *Mr. Amrein*. A consideration of animal associations and parasitism in general with special reference to those parasites of medical, economic, and social importance. Prerequisite: any of the following: Zoology 1, 11, or Biology 1. 2 units. Second semester. *TTh*, 9.

107. PARASITOLOGY LABORATORY. *Mr. Amrein*. Study of representative living and preserved parasites. Prerequisite or concurrent: Zoology 106. Laboratory fee \$4.00. 1 unit. Second semester. *T*, 1:15-4:05.

115. COMPARATIVE ANATOMY. *Mr. Pequegnat*. A course embodying an analysis of the phylogenetic changes undergone by the principal organ systems accounting for their present structure, and a comparative study of the structure of modern vertebrates. Prerequisite: Zoology 1. Laboratory fee \$10.00. 4 units. First semester. Lectures *TTh*, 9; laboratory *T* and *Th*, 1:15-4:05.

120. VERTEBRATE EMBRYOLOGY. *Mr. McCarthy*. A study of development from fertilization through organogenesis. Prerequisite: Zoology 115. Laboratory fee \$8.00. 4 units. Second semester. Lectures *MWF*, 9; laboratory 1:15-4:05 either *M* or *Th*.

121. MAMMALIAN PHYSIOLOGY. *Mr. Ryerson*. The functions of organs and organ systems with emphasis on neural and humoral controls resulting from cellular changes. Prerequisites: one year of college chemistry, and Zoology 1 or equivalent. Laboratory fee \$8.00. 4 units. First semester. Lectures *MWF*, 9; laboratory *T*, 1:15-4:05.

125. HISTOLOGICAL TECHNIQUE. *Mr. McCarthy*. Theory and practice of preparation of vertebrate cells and tissues for microscopical study. Laboratory fee \$4.00. 1 unit. First semester. *W*, 1:15-4:05.

126. VERTEBRATE HISTOLOGY. *Mr. Ryerson*. Microscopic anatomy of representative vertebrate tissues and organs. Laboratory fee \$6.00. 3 units. First semester. Lectures *TTh*, 9; laboratory *Th*, 1:15-4:05.

130. MARINE INVERTEBRATES. *Mr. Pequegnat*. A study of invertebrates residing in the sea: their phylogenetic relationships, their morphology, and their physiology. Laboratory devoted principally to the Pacific Coast types. Offered at the Marine Laboratory during the summer. 3 units.

135. MAMMALIAN ANATOMY. *Mr. Ryerson*. The gross anatomy of mammals illustrated by regional dissections of the cat. Prerequisite: Zoology 1 or equivalent. Laboratory fee \$6.00. 4 units. Second semester. Lectures *TTh* 10; laboratory *T* and *Th*, 1:15-4:05.

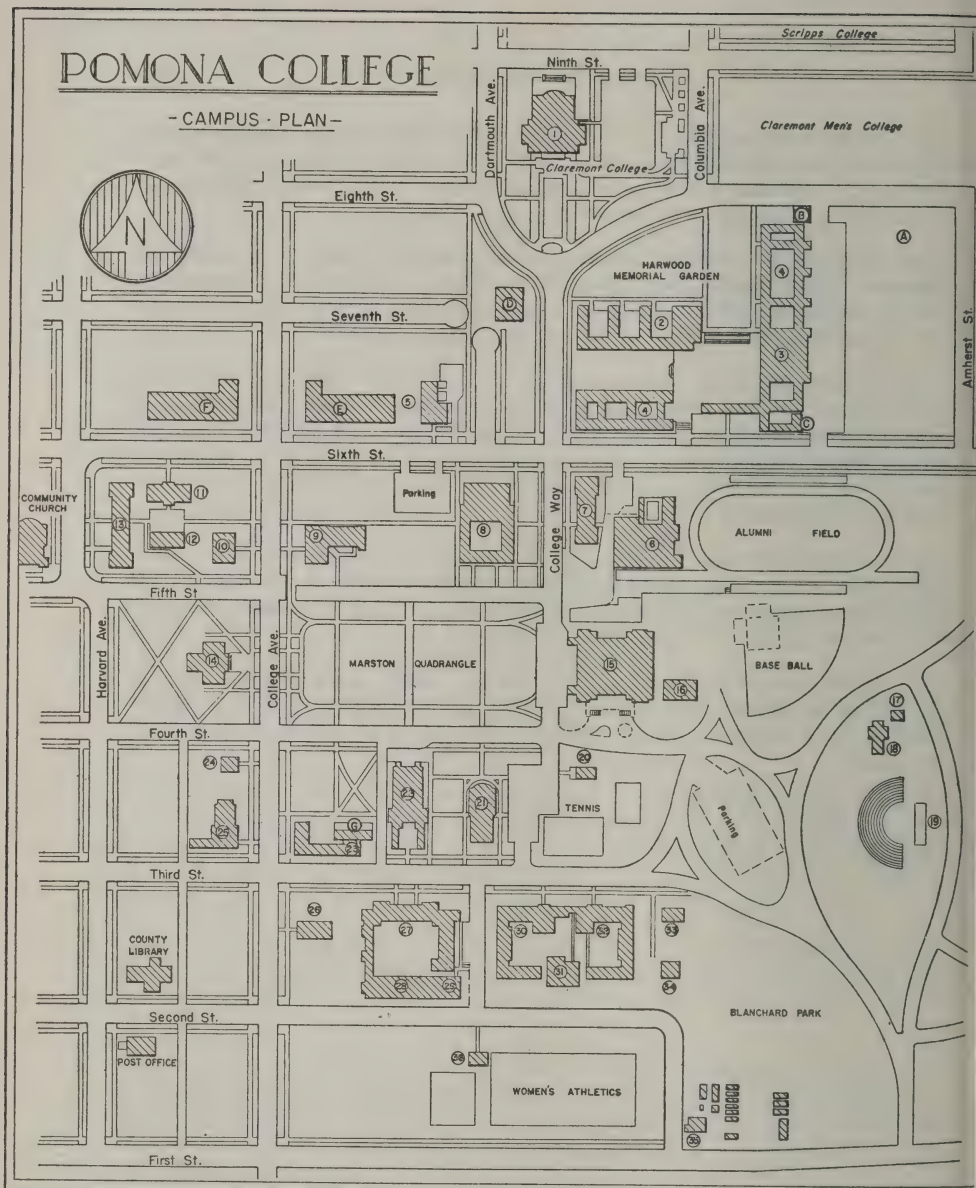
150. MARINE ECOLOGY. *Mr. Pequegnat*. A study of marine invertebrates as they exist in the field. Discussion of the distribution of each species observed and the factors which may account for these distributional patterns. Prerequisite: a thorough grounding in the morphology and physiology of marine invertebrates or Zoology 130 concurrently. Offered at the Marine Laboratory during the summer. 3 units.

157. ANIMAL ECOLOGY. *Mr. Pequegnat*. A study of environment, life history, populations, communities, distribution, and evolution, with particular emphasis on the vertebrates. Laboratory fee \$10. 4 units. Second semester. Lectures *TTh*, 9; laboratory *TTh*, 1:15-4:05.

199. INTRODUCTION TO RESEARCH IN ZOOLOGY. *Staff*. Each semester. 1 to 3 units. May be repeated for credit. When laboratory work is involved, laboratory fee, \$2.00 per unit. Offered at Marine Laboratory as well as at Claremont. Arranged.

POMONA COLLEGE

- CAMPUS - PLAN -



- A. Athearn Field.
- B. Telephone Building for the Associated Colleges.
- C. Edwin C. Norton Hall, residence for men.
- D. The Faculty House for the Associated Colleges.
- E. The new Physics, Mathematics and Astronomy building.
- F. The new Geology and Zoology building.
- G. Rembrandt Hall, art studios.

POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

1. Honnold Library operated by Claremont College for the Associated Colleges.
2. Helen R. Walker Hall, residence for men.
3. Lucien H. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for the Associated Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, classrooms and offices.
11. Crookshank Hall, botany, biology, and zoology laboratories.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry and geology laboratories.
14. Carnegie Building, classrooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont College in behalf of the Associated Colleges.
16. Renwick Gymnasium.
17. Seaver Laboratory, containing classrooms and library for the department of astronomy.
18. Frank P. Brackett Observatory.
19. Open-Air Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration and classroom building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. The Gladys Montgomery Art Center.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Site for Anna May Wig Dormitory for Women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Deutsches Haus, residence for women.
34. Maison Française, residence for women.
35. Heating Plant and Maintenance Shops for the Associated Colleges.
36. Field House for women's athletics.

The Business Office for the Associated Colleges is located in Harper Hall at College and Tenth Streets.

The Infirmary for the Associated Colleges is located on Amherst Avenue north of Foothill Blvd.

INDEX

Academic Distinctions	55	Business Administration	71
Academic Regulations	82	Business Office	26
Administrative Officials	7		
Admission	31	California Institute of Tech-	
Advanced Standing	32	nology Combined Program	33, 73
Application Deadline	32	Campus Organizations	61
Application Procedure	33	Campus Plan	161
Freshman Standing	31	Carnegie Building	25
Agriculture	70	Casa Hispánica	29
Alumni Field	27	Changes in Registration	84
American History and		Chapel Service	60
Institutions Requirements	81	Chemistry Department	99
Amount of Work Permitted	83	Chinese Language	132
Anthropology	151	Choir	61, 131
Applied Music	131	Claremont	24
Architecture	71	Claremont College	22
Art Department	91	Claremont Graduate	
Asian Area Concentration	132	School	22, 68, 77
Assemblies	60	Claremont Inn	30
Associated Colleges	22	Claremont Men's College	22
Courses in	89	Clark Hall	28
Associated Students	61	Clark Lectures	60
Dues	36	Class Attendance	84
Astronomy Department	94	Classics	101
Athearn Field	28	College Calendar	4
Athletics	66	College Church	60
Attendance Requirements	84	College Entrance Examina-	
Auditing of Courses	36, 83	tion Board	32, 34
Automobiles	63	College Life Council	63
		Commencement Honors	80
Bachelor of Arts	80	Committees of the Faculty	20
Band	61, 131	Comparative Literature	102
Baxter Medical Building	29	Completion of Work	82, 83
Bills	39	Comprehensive Examinations	87
Biology Department	95	Concentration in International	
Biology-Geology Building	26	Relations	117
Blaisdell Hall	28	Concentration in Latin	
Blanchard Park	25	American Affairs	118, 122
Board	36, 37	Concentration in Upper	
Board of Trustees	6	Division	87
Botany Department	96	Concentration Requirements	87
Brackett Observatory	26	Concert Series	61
Bridges Auditorium	26	Conduct of Students	62
Bridges Hall of Music	26	Convocations	60
Buildings and Equipment	25-30	Cooperative Store	29

Counseling Center	67	Faculty List	8
Course Load	83	Fees	36
Courses of Instruction	89	Applied Music	37
Creative Writing	107	Auditors	83
Crookshank Hall	27	Automobiles	36, 63
Curriculum	79	Change of Program	36
		Departmental	36
Deferment of Bills	38	Graduation	36, 81
Degree Requirements	80	Late Registration	36, 84
Deutsches Haus	29	Residence	36, 37
Dining Halls	28	Special Examination	84
Dismissal from Courses	84	Field Trips	84
Dispensary	29, 65	Final Examinations	84
Distribution Requirements	80, 86	Fisk Exchange Program	67
Divisional Courses	90	Forestry	70
Divisions	90	Frery Dining Hall	28
Draft Deferment for ROTC		Fraternities	61
Students	126	French	148
Dramatics	155		
Dramatic Organizations	62	Geology Department	111
		German Department	112
Economics Department	103	Gibson Dining Hall	29
Economics-Engineering	72	Glee Clubs	61, 131
Edmunds Union	29	Government Department	113
Education Department	106	Grade Point Requirement	80
Engineering	72	Grades and Grade Points	80, 82
Engineering Drawing	125	Graduate Record Examination	69
English Department	107	Graduation Requirements	80
Examinations—		Grants in Aid	49
American History and		Greek	101
Institutions	81	Gymnasiums	27
College Entrance Board	34		
Comprehensive	87	Harvey Mudd College	22
Final	84	Harwood Court	28
Medical	65	Harwood Dining Hall	29
Exemption from English I	86	Harwood Garden	25
Exemption from Physical		Harwood Hall	27
Education Activities	81	Health Facilities	29
Expenses	36	History Department	119
Extracurricular Activities	61	History of College	21
		History Requirement	81
Faculty—		Holmes Hall	25
Administrative Officers	8	Honnold Library	27
Advisers	80	Honor Societies	61
Committees	20	Honors at Entrance	40
Emeriti	9	Honors, Commencement	80
Faculty House	30	Honors Study	88

- | | | | |
|---------------------------------------|----------|--|----------|
| Incomplete Grades | 82 | Observatories | 26 |
| Infirmary | 29, 65 | Olney Dining Hall | 29 |
| Insurance for Students | 65 | Open Air Theatre | 26 |
| Intercollegiate Program of | | Orchestra | 61, 131 |
| Graduate Studies | 68 | Organizations— | |
| International Relations | 117 | Campus | 61 |
| Italian | 150 | Departmental | 61 |
| | | Oriental Affairs | 132 |
| Johnson Lectures | 59 | | |
| Judiciary Council | 63 | Pearsons Hall of Science | 25 |
| Junior College Transfers— | | Phi Beta Kappa | 55 |
| Admission | 32 | Philosophy Department | 134 |
| | | Physical Education Department | 137 |
| Landscape Architecture | 70 | Physical Education Require- | |
| Last Date for Dropping a Course | 85 | ment | 81 |
| Last Date for Entering a Course | 84 | Required Courses | 140, 141 |
| Latin | 101 | Physical Examinations | 65 |
| Latin American Affairs | 118, 122 | Physics-Mathematics-Astron- | |
| Law | 74 | omy Building | 26 |
| Lecture Foundations | 59 | Physics Department | 142 |
| Library Facilities | 59 | Placement Examination for | |
| Loan Funds | 52 | Romance Languages | 148 |
| Low Grade Reports | 83 | Placement Service | 67 |
| | | Pomona College Scholars | 55 |
| Maison Française | 29 | Porter Lecture | 60 |
| Making Up F Grade | 82 | Pre-Medical Program | 74 |
| Map of Campus | 160 | Pre-Registration | 84 |
| Marine Laboratory | 157 | President's House | 30 |
| Marston Quadrangle | 25 | Prizes and Awards | 55 |
| Mason Hall | 27 | Professional Preparation | 70 |
| Mathematics Department | 123 | Psychological Counselling Center | 67 |
| Matriculation | 85 | Psychology Department | 75, 143 |
| Maximum Course Load | 83 | Publications | 59 |
| Maximum Units in One | | Public School Teaching | 75 |
| Department | 87 | | |
| Medical Care | 65 | Radio Station | 62 |
| Medical Certificate | 65 | Rancho Santa Ana Botanic | |
| Memorial Court | 25 | Garden | 98 |
| Military Science | 125 | Reading Period | 83 |
| Minimum Course Load | 83 | Refunds | 38, 84 |
| Montgomery Art Center | 26 | Registration | 84 |
| Motorcycle | 63 | Regulation on English | 85 |
| Mudd Hall | 28 | Religion Department | 146 |
| Music Department | 127 | Religious Activities | 60 |
| Musical Activities | 60 | Rembrandt Hall | 26 |
| | | Renwick Gymnasium | 28 |
| Norton Hall | 28 | Replica House | 30 |
| Numbering of Courses | 89 | | |

Requirements for—		Stover Memorial	25
Admission	31	Student Aid Funds	49
Concentration	87	Student Employment	53
Distribution	80, 86	Student Publications	62
Graduation	80	Student Union	28
Residence Facilities	37	Summer Session	69
Residence Halls	28	Sumner Hall	25
Residence Regulations	37	Swimming Pool	27
Residence Requirement	80		
Romance Languages and		Teacher Training Program	77
Literatures	148	Teaching Credentials	77
Room Deposit	34, 38	Telescopes	26
ROTC	125	Three-Year M.A. Program 103, 113	
ROTC Summer Camp	127	Training Quarters	27
Russian Area Studies	118	Transcripts for Transfer Students	83
Russian Language	151	Transfer Credit	32
		Trustees	6
Scholarships	40	Tuition	36
Deadline for Applications	40		
For Graduate Work	53, 54	Upper Division Requirements	80, 87
Scholastic Aptitude Test	32, 34		
Scholastic Requirements	80	Vocational Counselling	67
Scripps College	22	Vocational Opportunities	70
Seaver Laboratory	26		
Secondary School Music	128	Walker Hall	28
Smiley Hall	28	War Memorial Gymnasium	27
Social Work	77	Washington Semester	116
Sociology Department	151	Wig Hall	29
Spanish	150	Withdrawal from College	83
Special Standing	83	Withdrawal from Course	84
Special Students	33		
Speech and Drama Department	155	Zoology Department	157

UNIVERSITY OF ILLINOIS-URBANA



3 0112 112467102